JF Viva Owner's Handbook

JF VIVA

**Vehicle Identification Certificate**

Owner's name

Owner's address

Town State Postcode

Vehicle Identification Number (17 character ISOVIN)

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |

Model name

Registration number Engine number

Odometer reading

Date of purchase

Selling Retailer's Stamp and Signature

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

**Change of name, address or ownership**
In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle. Also, if less than three years old, this vehicle will qualify for Roadside Assistance, refer to Chapter 9.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Printed in Australia
**Part No. 92184349**
October 2005 (JF Viva Print 2)

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We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction and compliment you on your choice.

Due to different models and options, you may find reference in this handbook to some equipment not installed in your own vehicle.

Please note that all information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing.

Holden reserves the right to make changes at any time without notice and without incurring any obligation.

## CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver. Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au.*
Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms.)

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

Holden number (if fitted – refer to Chapter 8)

ISOVIN Number (Refer to Chapter 8)

*Place in an envelope and mail to:*

The Manager - Warranty Administration
Service Department
GM Holden Ltd
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

# Dashboard

The following page illustrates the dashboard, identifying and locating each function; page numbers refer you to each item.

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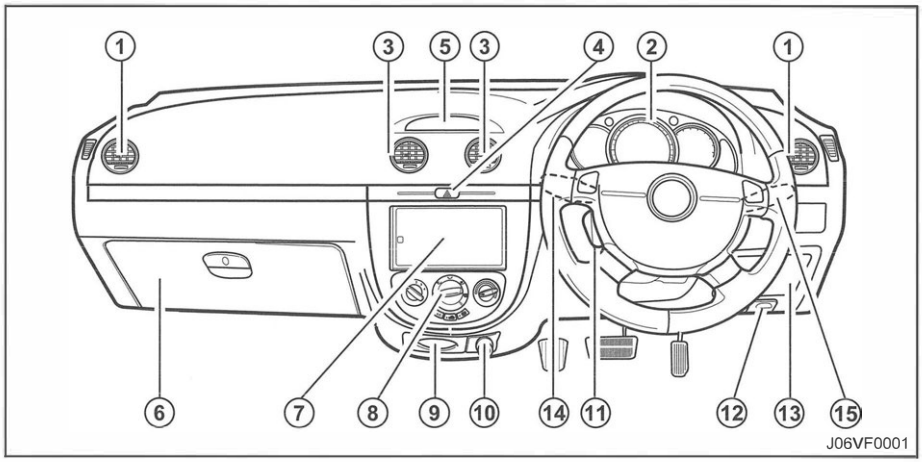
1-19 Ashtray and glovebox
1-20 Storage Compartment and bonnet release

## LAYOUT

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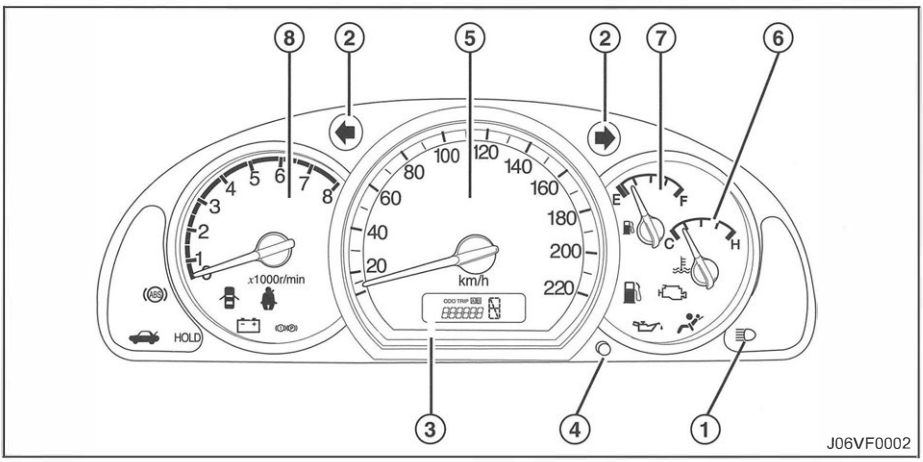
# GAUGES

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## Speedometer

The speedometer (5) indicates the vehicle's speed in kilometres per hour (km/h).

## Odometer and tripmeter

A small window under the speedometer is used for the odometer and tripmeter (3).

The odometer records the distance travelled since the vehicle was built, and the tripmeter records the distance travelled on a particular journey. The tripmeter can keep a record of two different journeys at the same time. The two trip odometers are distinguished as **TRIP A** and **TRIP B**.

The trip odometer reset button (4) is located at the lower right-hand side of the speedometer dial.

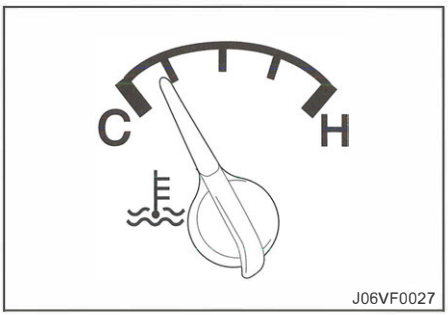
With the ignition switched on, push the trip odometer reset button (4) to change the display between **ODOMETER**, **TRIP A** and **TRIP B**. If the trip odometer reset button is pressed for more than one second, the tripmeter resets to zero.

## *GAUGES cont.*

### Temperature gauge

The temperature gauge (6) indicates the temperature of the engine coolant when the ignition switch is turned on.

Stop-start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing may cause the temperature to increase. This is normal, and is no cause for concern.



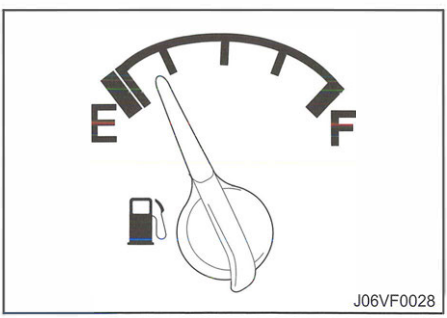

**WARNING:**

**Do not continue driving with the temperatue gauge pointer in the red area, the engine is too hot. Continued operation of an overheated engine will result in severe vehicle damage. Refer to Chapter 6 for overheating instructions.**

### Fuel gauge

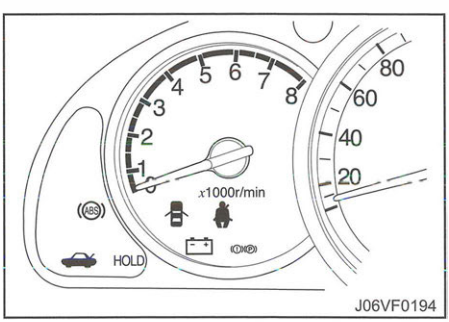
The fuel gauge (7) indicates the level of fuel within the fuel tank when the ignition switch is on. **F** represents full, **E** represents empty. The needle in the fuel gauge falls to **E** when the ignition switch is turned off. The fuel tank content displays when the ignition is turned to on.

Refer to Chapter 5 for refuelling instructions.




### Tachometer

The tachometer (8) indicates the engine speed in revolutions per minute (rpm). The red zone of the tachometer indicates critical engine speed.



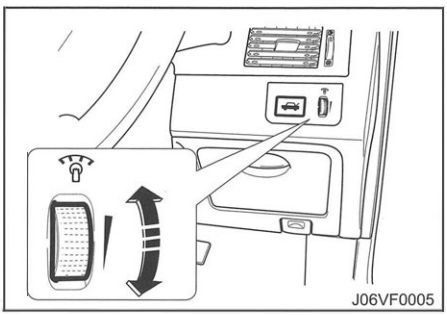

**WARNING:**

**Never operate the vehicle with the tachometer needle in the red zone. Continued operation with the tachometer needle in the red zone will lead to serious engine damage.**

# DIMMER AND CLOCK

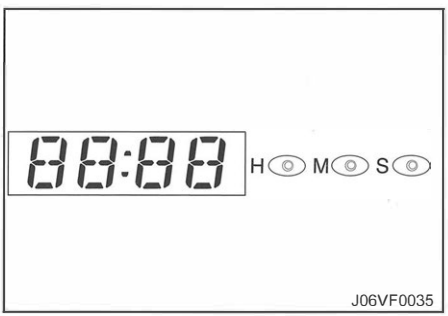
## Dimmer – instrument lighting

To adjust the instrument lighting brightness, ensure the headlights or park lights are switched on. Turn the dimmer thumb wheel, located to the right-hand side of the steering column, to adjust the instrument lighting to the desired brightness.




## Clock

With the ignition in the ACC (accessory) or ON position, the digital clock displays the time. The digital clock has two adjusting buttons.




**H: Hour button**

- To advance 1 hour, press the H button.
- To advance more then 1 hour, press and hold the H button until you reach the desired hour.

**M: Minute button**

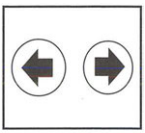
- To advance 1 minute, press the M button.
- To advance more than 1 minute, press and hold the M button until you reach the desired minute.

**S: Set button**

- To reset the time to the nearest hour, press the S button.
- If you press this button when the time is between 8:00 and 8.29 for example, the display will reset to 8:00.
- If you press this button while the time is between 8:30 and 8:59 for example, the display will reset to 9:00.

If the power supply to the clock is interrupted, then the clock will need to be reset.

## WARNING LAMPS



### Turn signals

When the turn signal switch or hazard warning light switch is switched on, the turn signal indicator lamp (within the instrument panel) flashes to indicate operation of the turn signal lamps or hazard warning lamps.

### High beam

This indicator light is illuminated when the headlamps high beams are in use.

### Oil pressure

The oil pressure lamp illuminates when the ignition switch is turned to the ON position, and will remain illuminated until the engine is started.

If the oil pressure lamp is illuminated while driving, this indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level (refer to Chapter 7). Do not drive the vehicle with the oil pressure indicator lamp illuminated, consult your Holden Dealer.

### Low fuel

The low fuel indicator lamp displays when the fuel tank is approaching empty. It indicates there is approximately 7.5 litres of fuel remaining in the tank. When the low fuel lamp illuminates add fuel as soon as possible.

### Brake

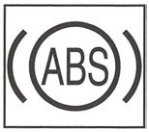
The brake warning lamp will display when the ignition is in the ON position but the engine is not running, as a check to show you it is working properly.

If the brake warning lamp displays while you are driving and the park brake is fully released, you should stop the car as soon as possible and consult your Holden Dealer.

**WARNING:**

**Driving with the brake warning lamp on can lead to an accident. Have the brakes checked immediately if the brake warning light stays on.**

## *WARNING LAMPS cont.*

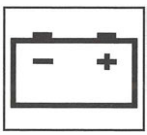



### Anti-lock brake system (ABS)(if fitted)

The ABS warning lamp will illuminate when the ignition switch is turned to the ON position, and will go out after a few seconds.

If the lamp comes on while driving, carefully stop the vehicle and turn off the engine. If the lamp stays on or illuminates again while driving, you should have the system checked by a Holden Dealer.

**Note:** This lamp indicates that the anti-lock braking system is not operating. Your vehicle's brake system will still operate conventionally (Refer Chapter 4).



### Battery

The battery warning lamp will illuminate when the ignition switch is turned to the ON position, and will remain on until the engine is started.

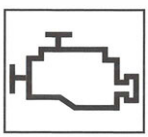
If the lamp illuminates when driving, this may indicate that the generator is not charging the battery. If the generator drive belt is intact, there is a problem in the charging system and you should see your Holden Dealer.

### Door ajar lamp

The door ajar lamp illuminates if any door is not fully closed, when the ignition switch is turned to the ON or START position.

### Boot compartment ajar lamp (sedan only)

The boot compartment ajar lamp will come on if the boot is not completely closed.



### Malfunction indicator lamp

The malfunction indicator lamp monitors the emission control system. This lamp should come on when the ignition is in the ON position, engine is not running. If it stays on or comes on while you are driving, there may be a problem with this system, consult your Holden Dealer.

**WARNING:**

**If you keep driving your vehicle with this light on, after a while, your emission controls may not work as well, your fuel economy may not be as good and your engine may not run as smoothly. This could lead to costly repairs.**

## *WARNING LAMPS cont.*

### Hold mode indicator (if fitted)

The hold mode indicator lamp comes on and stays on whenever holdmode is active. Hold mode allows you to shift gears similar to a manual transmission. To return to automatic operation, press the hold switch again. If the hold mode indicator lamp flashes, have your vehicle serviced immediately.

### Seat belt reminder

When the ignition switch is turned on, the seat belt reminder lamp comes on to remind occupants to fasten their seat belts. A chime will also sound for approximately 6 seconds.

If the driver's belt is buckled, neither the chime nor the light will come on.

### Airbag and seat belt pretensioners indicator

To check that the warning lamp is working, the SRS warning lamp illuminates for a short time when the ignition is first turned on.

If the SRS warning lamp illuminates while driving, it indicates that the airbag system or seat belt pretensioner system may not function correctly, especially in an accident. Contact your Holden Dealer immediately.

# WIPERS AND WASHERS

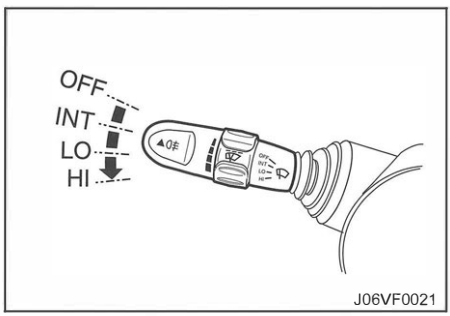
## Windshield wipers

To operate the windshield wipers, turn the ignition ON and move the windshield wiper / washer lever downward.

The windshield wipers operate in the following four positions:

- **OFF:** System off. Default position.
- **INT:** Intermittent operation (Turn the adjuster wheel up and down to choose the desired speed). Lever down one level.
- **LO:** Continuous wipe, slow speed. Lever down two levels.
- **HI:** Continuous wipe, fast speed. Lever down three levels.

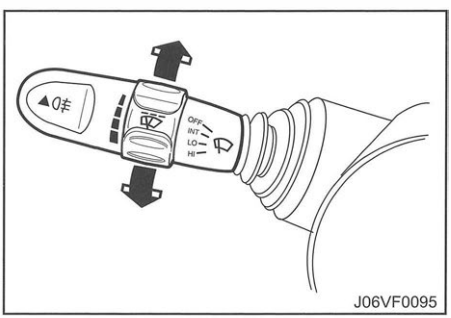
Never operate the wipers on dry glass, as this will damage the rubber and scratch the windshield. Ensure the wipers are clear of any snow or ice before switching them on.



J06VF0021

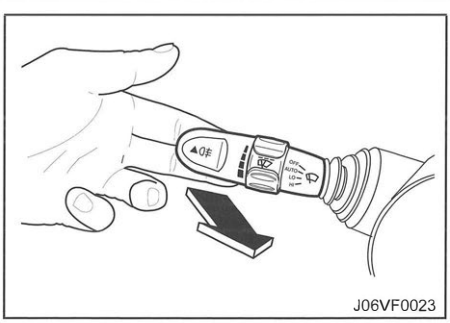
## Variable intermittent windshield wiper

The wipers will operate intermittently when the windshield wiper lever is shifted to the **INT** position. The interval between wiper sweeps can be adjusted within a range of approximately 1.5 to 15 seconds by turning the intermittent ring.


J06VF0095

## Windshield washer

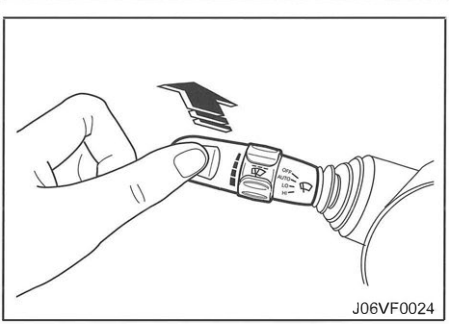
To spray washer fluid onto the windshield, pull the windshield wiper lever towards you. Even if the wiper setting is not selected, the washer will spray fluid and the wipers will operate for three cycles or until the stalk is released.


J06VF0023

## Rear wiper and washer (if fitted)

To turn the rear wiper on, push the rear wiper lever toward the instrument panel to the first position.

To spray washer fluid push the stalk to the second position.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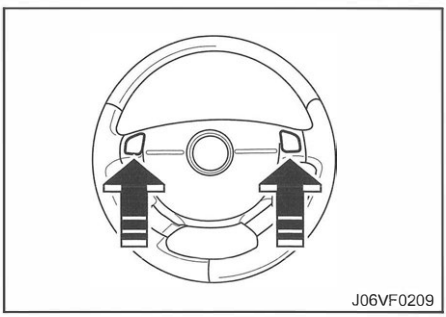
# HORN AND AUDIO SYSTEM

## Horn

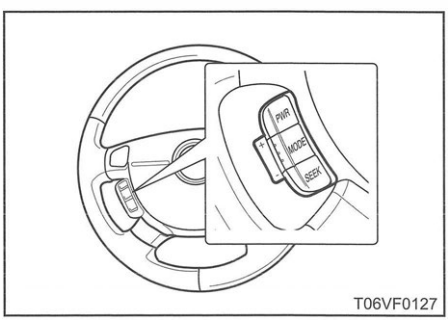
To sound the horn, press the horn symbol on either side of the steering wheel centre pad. The horn will sound regardless of ignition switch position.




## Audio System

Refer to the operating instruction supplement in your glovebox for all information relating to the operation of the radio / CD player in your vehicle.

## Steering wheel audio controls




Pressing **PWR** will turn the system on. Pressing again will mute and unmute the system. To turn the system off hold down the **PWR** button.

Press **MODE** to switch between the available audio sources.

Press **+** or **-** on the **VOLUME** switch to increase or decrease the volume.

When the radio is active, press **SEEK** for less than a half second to find the next preset station.

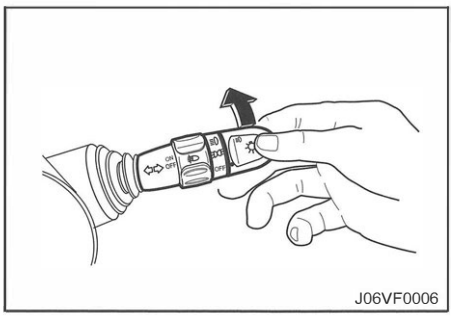
When the radio is active, press and hold **SEEK** for more than half a second to find the next receivable station.

When the disc player is active, press **SEEK** for less than a half second to move quickly to the beginning of the next track.

When the disc player is active, press and hold **SEEK** for more than half a second to fast forward through the selected disc.

# HEADLAMPS

### Lamp switch controls



J06VF0006

The lamp switch controls the following lamps:

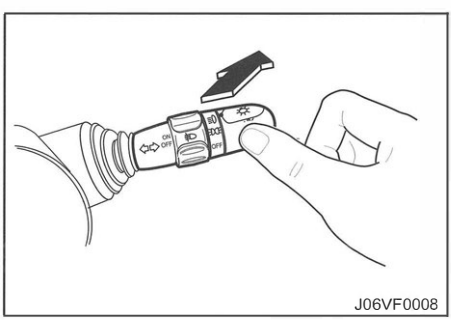
- Headlamps
- Tail lamps
- Parking lamps
- Number plate lamps
- Instrument panel lamps

Rotate the band to ≡OO≡ to turn on your parking and other operating lamps.The headlamps will not come on.

Rotate the band to ≡D≡D to turn on your headlights. The parking and other operating lights will also come on.

If you turn the ignition to the LOCK or ACC (accessory) position, the headlamps will turn off automatically.

### High / low beam



J06VF0008

Switching between high and low beam requires the low beam lamps to be on. Push the lever toward the front of the vehicle to switch from low beam to high beam and return the lever to the original position for low beam.

The headlamp high beam indicator lamp on the instrument panel lights up when the headlights are in high beam.

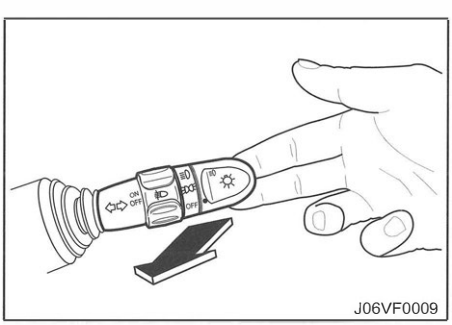
### Battery saver

Battery saver is to prevent the battery from being discharged.

When you leave the light switch in the ≡OO≡ position, remove the key, and open the driver's door, the lights will turn off automatically.

**Note:** If you remove the key and open the driver's door when the dome lamp is ON, the dome lamp will not turn off automatically.

### Flashing high beam

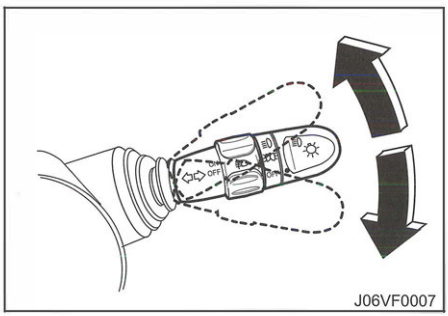


J06VF0009

It is also possible to flash the high beams for signalling purposes by pulling the lever towards you (even with the headlamps turned off). The lights remain in high beam as long as the lever is held in this position.

# TURN SIGNALS AND IGNITION SWITCH

## Turn signals

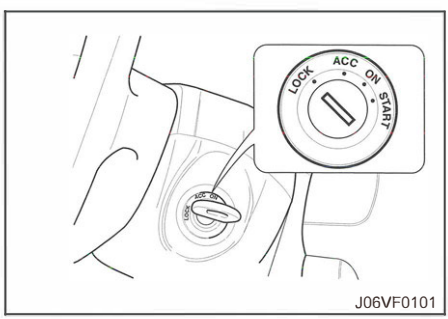



The turn signal lever is on the right-hand side of the steering column. Push the lever up to signal a left turn and down to signal a right turn.

In some turns (such as changing lanes), the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold it. The lever will return to the neutral position when you release it.

An arrow on the instrument panel flashes when the turn signals are in operation.

## Ignition switch




**LOCK:** This is the normal parking position for the ignition switch; the accessories and engine are off. The ignition key can only be removed from the ignition switch when it is in this position. When the key is removed the ignition and steering are locked. To release the steering lock, insert the key into the switch and turn the key to any other position. If you have trouble turning the ignition key to unlock the steering, turn the steering wheel slightly to the right or left while turning the key.

**ACC:** When the ignition key is in this position, the engine is off, but accessories such as the radio will still operate. To avoid flattening the battery, avoid excessive use of accessories when the engine is not running.

**ON:** In this position, the engine is ready to start and all electrical systems are active. Do not leave the ignition switch in this position for a prolonged period unless the engine is running, otherwise the battery will discharge.

**START:** This is the position for starting the engine. The ignition key should be released from this position as soon as the engine starts.

**WARNING:**

**Do not turn the engine off while the vehicle is moving. Power assisted equipment (such as brakes or steering) which are operated by the engine will be ineffective. Never remove the key while the vehicle is moving, as this will lock the steering.**

# IMMOBILISER AND HAZARD WARNING

## Immobiliser

To provide additional security, your vehicle is fitted with a vehicle immobiliser. The engine will not start unless the correct key (correctly programmed) is used.

**Note:** Any additional or replacement keys must be purchased from and programmed by a Holden Dealer.

If the immobiliser system has developed a fault or an incorrectly programmed key is used in an attempt to start the vehicle, the MALFUNCTION INDICATOR lamp will illuminate.

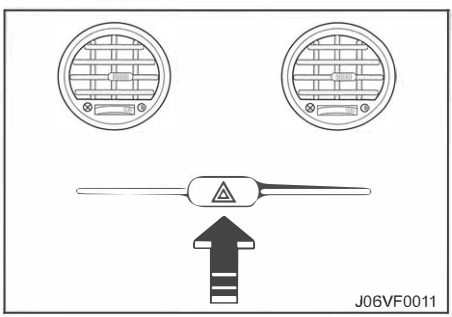
## Hazard warning

Press the switch located between the two centre air vents to turn the hazard warning flasher on and off. The hazard warning flasher works regardless of the ignition position.

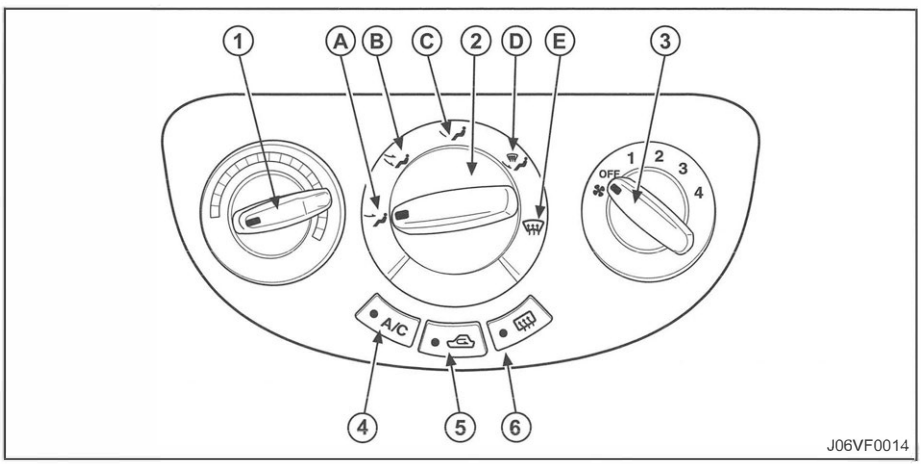
When turned on, all turn signals will continuously flash.

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard.

The use of the hazard warning flashers while the vehicle is moving may be illegal in some States.



# HEATING AND AIR CONDITIONING SYSTEM

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## Air temperature selector

This knob controls the temperature. Turn the temperature knob to the red area for warmer air or to the blue area for cooler air.

## Air outlet selector

This knob controls the air delivery mode. Turn the knob to direct air flow through the desired outlets.

## Fan speed selector

This knob controls the fan speed. Turn the knob to the right to increase fan speed, or to the left to decrease fan speed. There are five fan settings: **OFF, 1, 2, 3 and 4.**

## *HEATING AND AIR CONDITIONING SYSTEM cont.*

### Air conditioning switch

Press this button to turn the air conditioning on. The engine must be running in order for the feature to work. Set the fan position to **1**, **2**, **3**, or **4** to begin air circulation. An indication light will illuminate on the button when the air conditioning is in use.

**Note:** The fan must be turned on for the air conditioning to work.

Even when the air conditioning system is on, your vehicle will produce warm air if the temperature control knob is set to warm.

Press the air conditioning switch again to turn the air conditioning off.

You may notice water dripping under the vehicle sometimes after driving with air conditioning on. This is normal because your air conditioning system removes moisture from the air.

Because the compressor of the air conditioning system shares the engine power, you may notice a slight change in engine power and performance when the compressor operates.

### Air recirculation switch

Press the recirculation switch to recirculate the air in your vehicle. This is useful for keeping dust and odours out or when quick heating or cooling is desired.

The indicator light in the switch illuminates.

Press the switch again to turn off the recirculation feature and allow outside air into your vehicle.

Using the recirculation setting for an extended period of time may cause the windows to fog up. If this happens, turn the recirculation feature off.

### Fan Off setting

When the Fan Speed Selector is turned anti-clockwise all the way, the air conditioning system turns off. However, if the recirculation switch is turned off, outside air still comes into the vehicle when it is moving.

### Air Outlets

The direction of air flowing out of the vents can be changed by moving the airflow deflectors up, down, right or left.

Some outlets may be equipped with a shut-off dial. Rotate the dial to the left to close the outlet or to the right to open it.

## *HEATING AND AIR CONDITIONING SYSTEM cont.*

### Air outlet selector

Different vents are selected when the air selector is set in the following positions:

Air flows from the four face level outlets in the instrument panel.

The blending mode directs airflow through both the instrument panel outlets and the floor outlets.

This mode also directs airflow through the rear floor outlets (if fitted).

The heater mode directs most of the airflow through the floor outlets, with some air going to the windshield and side window demister vents.

This mode also directs airflow through the rear floor outlets (if fitted).

This mode divides airflow equally between the windshield demister outlets and the floor outlets. A small amount of air will also be directed toward the side windows.

This mode also directs airflow through the rear floor outlets (if fitted).

Air flows from the window demist and windscreen demist outlets with a small amount from the floor outlets.

### Operating Tips

- To conserve fuel, turn off the air conditioner when it is not required.
- Keep the area under the front seat clear of objects to help air circulate through the vehicle.
- In hot weather before using the air conditioning system, open the windows for a few minutes to permit hot air to escape if the vehicle has been parked in direct sunlight.
- For maximum cooling, select the ventilation mode and the highest fan speed. Make sure the air conditioning is turned on. Rotate the temperature control knob to select the coolest temperature and activate the recirculation mode.
- Turn on the air conditioning for a few minutes at least once a week, even in the winter or when the air conditioning system is not being used regularly. This maintains proper lubrication of the compressor and seals, prolonging the service life of the system.
- Driving in stop-and-go traffic may reduce the effectiveness of the air conditioning system.
- To quickly demist the front windshield, use the demister mode, set the temperature to warm, and set the fan at the highest speed.
- For improved demisting of the windows on rainy days or in high humidity, turn the air conditioning on.

## *HEATING AND AIRCONDITIONING SYSTEM cont.*

- Windshield demister mode will operate with the air conditioner on or off.
- Do not use the heating / demisting mode or the demisting mode in extremely humid weather when the temperature control is set to cold.
- If occupants are smoking, it is recommended that recirculation is not used.
- When following another vehicle on dusty roads, or to prevent exhaust fumes or odours entering your vehicle, select recirculation and close the windows.
- When driving on unsealed roads but where the dust is not airborne, select fresh air (with the windows closed) and set the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

### Rear window demister

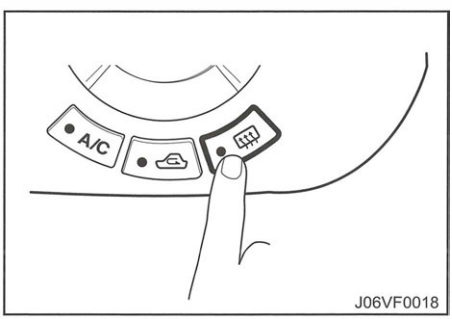
**WARNING:**
**Less than clear vision for the driver can lead to an accident resulting in personal injury and damage to your vehicle or other property.**

The ignition must be turned on for this feature to work.

Press this button to demist your rear window. To turn it off press the button again. Otherwise, it will go off by itself after ten minutes. To turn back on just press the button again.

The outside mirrors are heated when ever the rear demister is activated.

The indicator lamp in the button will illuminate when the system is on.




**Note:** Do not use the rear window demister under the following conditions:

- Engine is not running.
- You are just starting your vehicle.
- There is a buildup of snow or ice on the rear window.

Operating the rear window demister under these conditions could drain the battery. This can damage your vehicle, requiring the replacement of some parts.

### Passenger Compartment Pollen Filter

A passenger compartment pollen filter is fitted to filter outside air entering the vehicle.

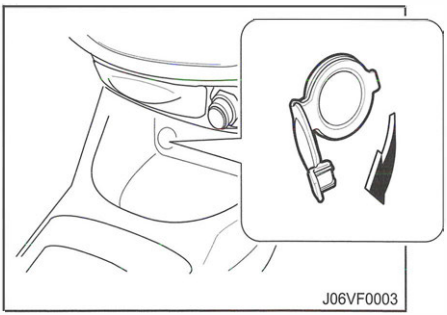
The filter removes contaminants such as pollen and dust from the air entering the vehicle.

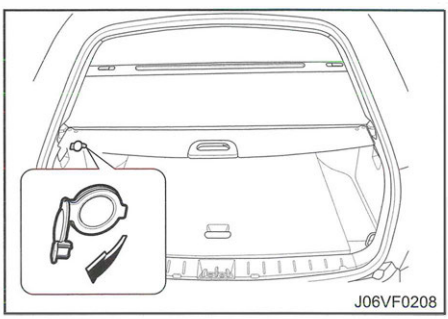
Proper maintenance of the passenger compartment pollen filter is required. Refer to Chapter 12 (Servicing).

# ACCESSORY POWER OUTLET AND CIGARETTE LIGHTER

## Accessory power outlet

The accessory power outlet is located near the ashtray in the instrument panel. On the wagon model, an additional power outlet is located in the side wall of the rear cargo area. Outlets can be used to plug in electrical equipment such as a mobile telephone, CB Radio, etc. To plug in auxiliary electrical equipment, flip the outlet cover open as illustrated and follow the installation instructions that are included with any electrical equipment you install. These circuits are protected by a fuse and have maximum current loads. When not in use, always cover the outlet with the protective cap.




The ignition must be in the ON or ACC (accessory) position for this feature to work.

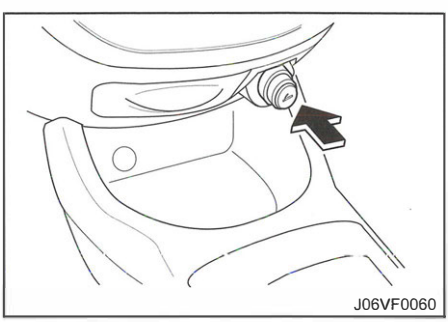
**WARNING:**

**When using all accessory power outlets, the total maximum electrical load must not exceed 12 Volts or 10 amps. Always turn off any electrical equipment when not in use. Leaving electrical equipment on for extended periods with the engine stopped will drain the battery.**

## Cigarette lighter

To use the cigarette lighter, push it in and wait for it to pop out.

The ignition must be in the ON or ACC (accessory) position for this feature to work.




**WARNING:**

**The barrel of an operating cigarette lighter can become very hot. It can cause personal injuries and damage to your vehicle or other property.**

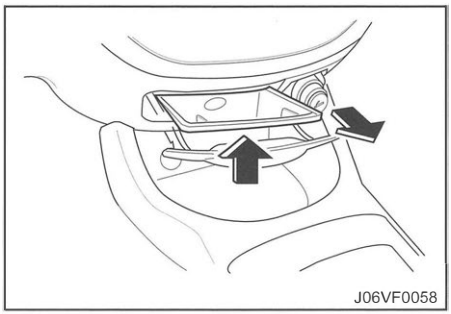
**Do not touch the barrel of the cigarette lighter and do not allow children to operate or play with the cigarette lighter.**

# ASHTRAY AND GLOVEBOX

## Ashtray

The ashtray should only be used for ash, not for combustible rubbish.

To empty the ashtray, pull open the ashtray, then lift the ashtray liner up and out.

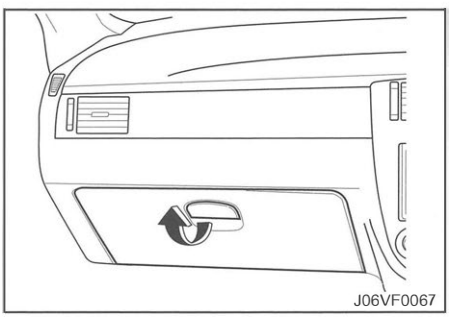



## Glovebox

The glovebox is located on the passenger side of the instrument panel.

The glovebox can be opened by pulling the handle. Push the lid shut to close the glovebox.

You can use the ignition key to lock the glovebox, turn the ignition key clockwise to lock, and anticlockwise to unlock.




## Glovebox cooling (if fitted)

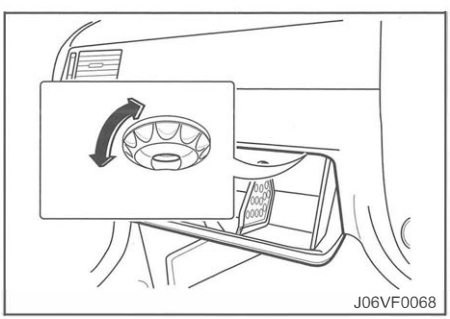
The glovebox is airconditioned to keep snacks fresh while you are travelling. Use the adjustment wheel inside the glove box to open or close the cooled air hole.

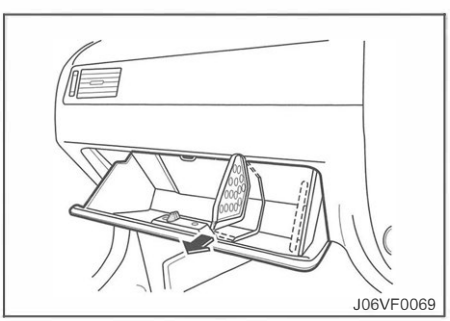
Cool air is sent into the glovebox through a vent when the air conditioning is turned on.

If glovebox cooling is not required, close the vent by turning the adjustment wheel counterclockwise.

To store larger items, remove the inner partition and store it in the right side groove of the glove box.

**Note:** In cold weather, cold air will flow through the glove box vent when the recirculation feature is turned off, allowing outside air to flow in. If glove box cooling is not required, close the vent.

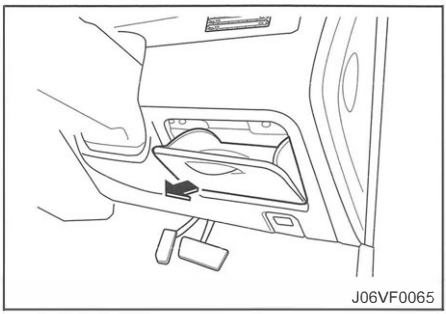


# STORAGE COMPARTMENT AND BONNET RELEASE

## Storage Compartment

Pull the cover downward to open the small pocket, located on the lower, driver's side of the instrument panel.


J06VF0065

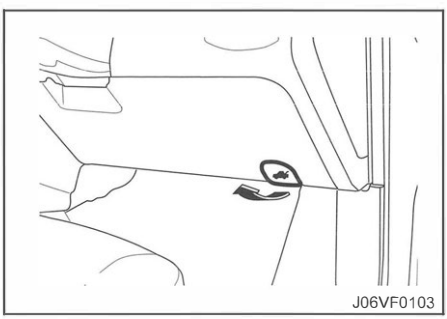
## Bonnet release

The bonnet release lever is located inside the vehicle, under the driver's side of the dash board. To release the bonnet pull the lever towards you. The bonnet releases but is prevented from opening fully by a safety catch.

To open the bonnet completely, reach in under the centre of the bonnet and move safety catch to the left, then raise the bonnet.

To hold the bonnet in the open position, insert the support rod into the slot provided.

Before closing the bonnet, return the support rod to its clip in the radiator grille and lower the bonnet down. Lower the bonnet gradually until nearly closed, and then drop it to close fully under its own weight.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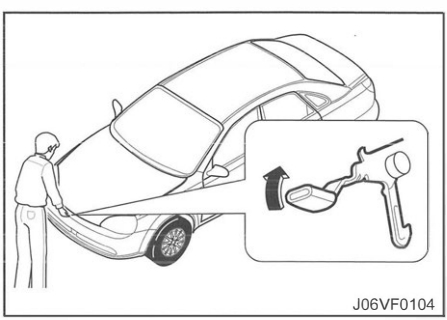
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CHAPTER 2

# Locks

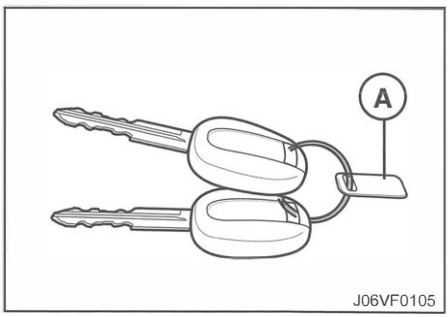

Page

2-2 Keys and keyless entry

2-5 Manual operation

# KEYS AND KEYLESS ENTRY

## Keys




The code number for your keys is stamped on the key plate **(A)**, which is attached to the key ring. Record the key number, remove the key plate and keep the number and the key plate in a safe place – not in the vehicle.

To protect your car from theft, an electronic immobilization system has been installed in your vehicle. Only keys with the correct electronic code can be used to start the car. Even if a key has the same profile it will not start the engine if the electronic code is incorrect.

In the event of the original keys being lost, any additional or replacement keys must be purchased from and programmed by a Holden Dealer, using your key code number.

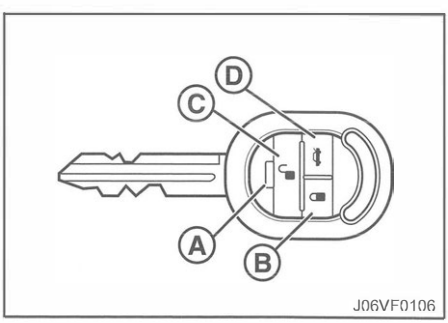
## Keyless entry using remote control

The range of the remote control unit should be about 6 metres, this may be reduced due to shadowing and reflection of the radio waves.To operate the remote control unit, direct it at the vehicle and press the required button.

For your convenience, we recommend that the central locking system always be operated using the remote control unit.

Treat the remote control unit with care; it should be protected against moisture and should not be operated unnecessarily.

### Sedan



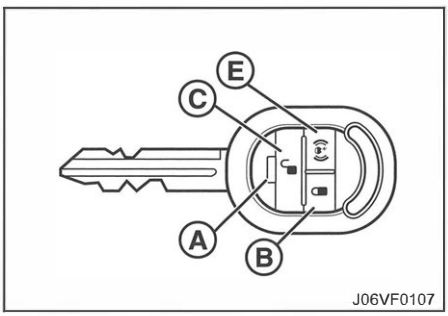

**To unlock the vehicle:** Press the (**C**) button on the remote control unit. The indicator light (**A**) illuminates briefly, the vehicle hazard lamps wll flash twice and the doors unlock.

**To lock the vehicle:** Press the **(B)** button on the remote control unit. The indicator light (**A**) illuminates briefly, the vehicle hazard lamps will flash once and the doors lock.

**To unlock the boot:** Press the **(D)** button on the remote control unit. The indicator light (**A**) illuminates briefly.

## *KEYS AND KEYLESS ENTRY cont.*

**Hatchback and Wagon**




**To unlock the vehicle:** Press the (**C**) button on the remote control unit. The indicator light (**A**) illuminates briefly, the vehicle hazard lamps will flash twice and the doors and liftgate unlock.

**To lock the vehicle:** Press the **(B)** button on the remote control unit. The indicator light (**A**) illuminates briefly, the vehicle hazard lamps will flash once and the doors and liftgate lock.

The hatchback and wagon remote control units contain a panic alarm which when pressed causes the vehicle hazard lamps to flash.

**To trigger the panic alarm:** Press the **(E)** button on the remote control unit for two seconds. The indicator light (**A**) illuminates briefly, the vehicle hazard lamps will begin to flash. They will remain flashing until button **(E)** is pressed again for two seconds.

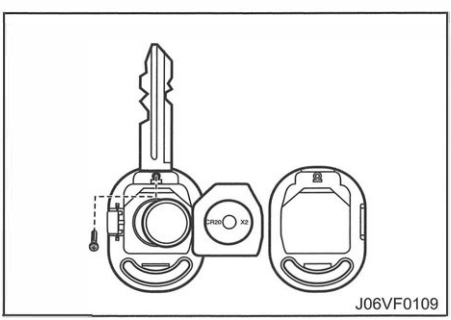
**Note 1:** If the remote control unit cannot unlock the central locking system, this maybe due to the following reasons:

- The voltage of the remote control battery is too low. Change the battery in the remote control unit.
- You may be too far from your vehicle.
- Interference from high-power radio waves from other sources.

**Note 2:** If the doors have been unlocked using the remote control unit and the doors have not been opened within 30 seconds; the doors will automatically relock.

### Replacing the battery in the remote control unit

Replace the battery as soon as the range of the remote control consistently starts to reduce, as follows:




1. Remove the screw from the back cover.
2. Remove the back cover.
3. Pull the transmitter unit out of the cover and open the transmitter unit.
4. Remove the battery and replace it with the new one, making sure the positive (+) side of the battery is facing up. Refer to chapter 8 for the correct battery to be used.
5. Close the cover of the transmitter unit and put the unit in the outside cover of the transmitter.
6. Reassemble the transmitter.
7. Test the operation of the transmitter with your vehicle.

## *KEYS AND KEYLESS ENTRY cont.*

### Matching the remote control

Matching transmitters to your vehicle may be necessary if you lose or replace a transmitter. Even if only one transmitter is being replaced, you must rematch all of your transmitters at the same time. Up to four transmitters can be matched to your vehicle. See your Holden Dealer to purchase a new transmitter and to have transmitters matched to your vehicle.

**WARNING:**

**The remote control unit is built up of precision electronic parts. To help avoid transmitter trouble:**

- **Do not leave the remote control unit in direct sunlight or on the instrument panel.**
- **Do not treat the remote control unit carelessly.**
- **Do not allow the remote control unit to get wet.**

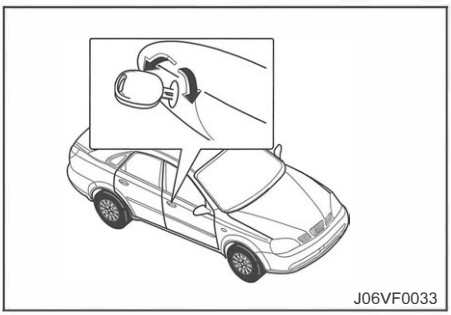
**Note:** If the system is overloaded as a result of repeated operation at short intervals, the power supply may cut off for a short amount of time.

# MANUAL OPERATION

## Manual locking system

**To lock using key:**

Insert key in the driver's door lock. Turn the key towards the rear of the vehicle. Allow the key to return to its vertical position for removal.

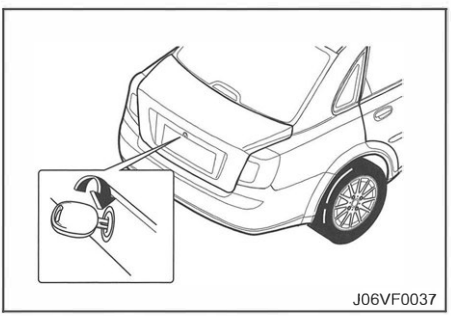

J06VF0033

**To unlock using key:**

Insert key in the driver's door lock. Turn the key towards the front of the vehicle. Allow the key to return to its vertical position for removal.

**To unlock boot using key:**

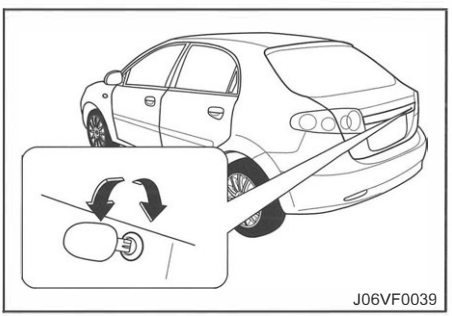
Insert key in the boot lock. Turn the key clockwise to unlock. Allow the key to return to its vertical position for removal.


J06VF0037

## Rear hatch lock (wagon and hatch)

**To lock:**

To close the liftgate, push it down until it latches securely. From the outside, the liftgate can be locked with either the remote control unit or with the key.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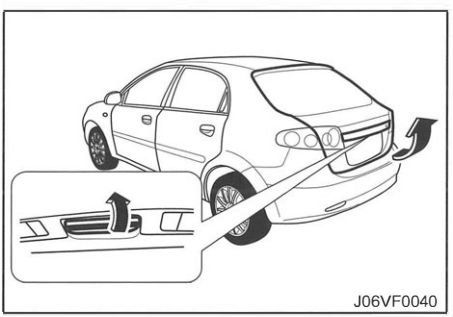
**To unlock:**

From the outside, use your key to unlock the liftgate, or use your remote control unit to unlock.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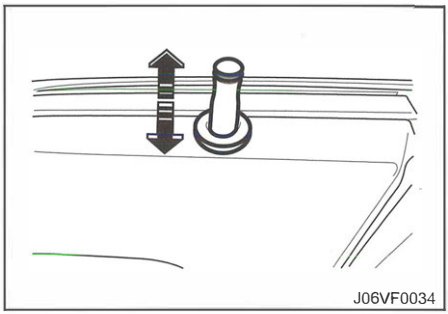
## *MANUAL OPERATION cont.*

### Door locks using snib




The door is unlocked when the snib is pulled up. The door is locked when the snib is pushed down.

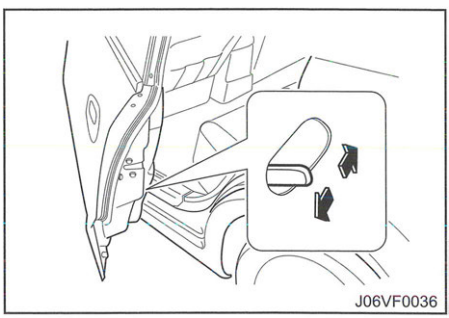
All passenger doors may be locked behind you by pressing the snib down when the door is open, then shutting the door.

The driver's door snib cannot be pushed down when the door is open. This prevents locking the driver's door when you leave the keys inside your car by mistake.

**WARNING:**

**Before driving, ensure that the doors are closed and locked, especially when young children are in the vehicle.**

### Child proof lock




The rear doors on the vehicle can be locked to prevent children from opening them from the inside.

To engage the child lock, open the rear door and locate the child proof lock on the doors rear edge. Move the lever on each rear door to the locked position to lock the doors.

The door cannot be opened from inside, regardless of the lock knob position however, the door can be opened from the outside.

To disengage the child lock, open the rear door and push the lever in the opposite direction. Close the doors.

**WARNING:**

**For safety, you should check that the lock is operating correctly by attempting to open the door from the inside after the lock has been engaged.**

## *MANUAL OPERATION cont.*

### Boot Area lock (sedan only)

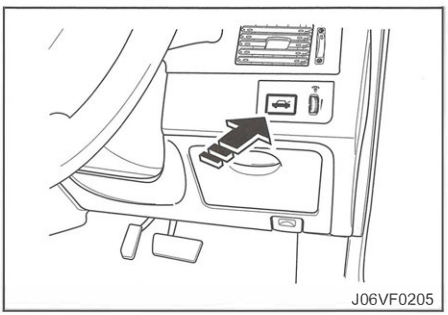
**To lock:**

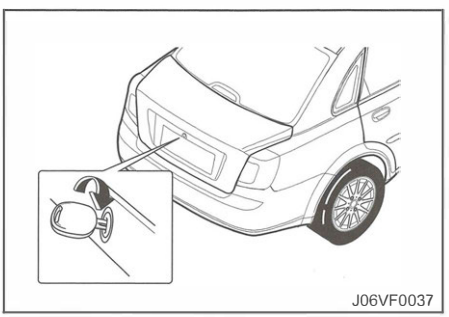
To close the luggage compartment lid, push it down until it latches securely. The luggage compartment lid automatically locks when closed.

**To unlock:**

From the outside, use your key to unlock the luggage compartment lid, or use your remote keyless entry transmitter to unlock.

From the inside, use the remote lock release button to open the boot.


J06VF0205


J06VF0037

**WARNING**

**It can be very dangerous to drive with the liftgate open. Carbon monoxide (CO) gas can come into your vehicle. You cannot see or smell CO. It can cause unconsciousness and even death.**

**If you must drive with it open, make sure all other windows are closed and turn the fan on to the highest speed using any setting that brings in outside air. Doing this will force outside air into the vehicle.**

### Glovebox

Refer to Chapter 1.

## ***Notes***

CHAPTER 3

# Know your vehicle


| Page | |
|---|---|
| 3-2 | Seat adjustment |
| 3-4 | Head restraint adjustment |
| 3-5 | Seat belts |
| 3-9 | Which type of child restraint for your child? |
| 3-10 | Child restraints |
| 3-13 | Mirrors |
| 3-14 | Tilt steering and windows |
| 3-16 | Interior lamps and antenna |
| 3-17 | Sun visors, vanity mirror, assist grip and centre console |
| 3-19 | Cupholders and storage |

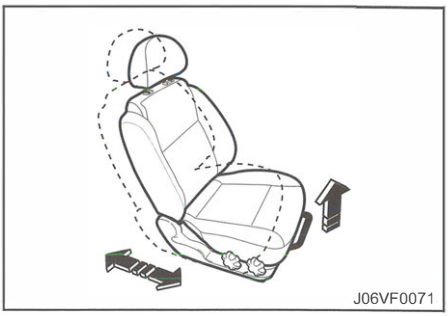
# SEAT ADJUSTMENT

## Driver's seat

Lift the lever to unlatch the front seat. Slide the seat to where you want it. Release the lever. Try to move the seat back and forth to check that the catch is fully engaged.

**WARNING:**

**Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.**

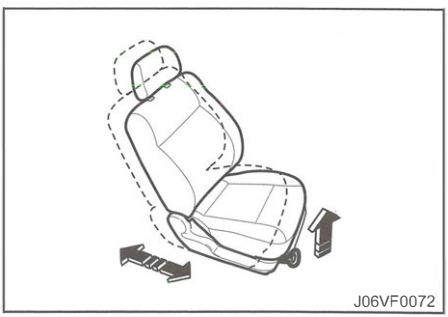



## Passenger's seat (with underseat storage compartment)

Lift the lever to unlatch the front seat. Slide the seat to where you want it. Release the lever. Try to move the seat back and forth to check that the catch is fully engaged.

**WARNING:**

**Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.**



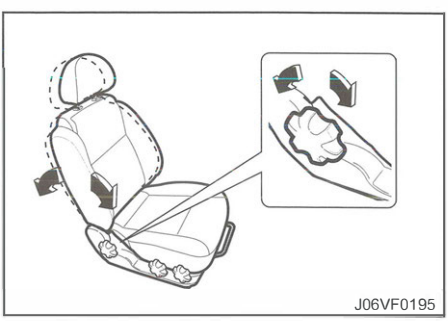

## Seatback reclining

To tilt the seatback:

Rotate the knob to adjust the seatback to the desired position.

**WARNING:**

**To avoid reducing the effectiveness of seat belts, seatback rests should only be semi-reclined when the vehicle is moving.**

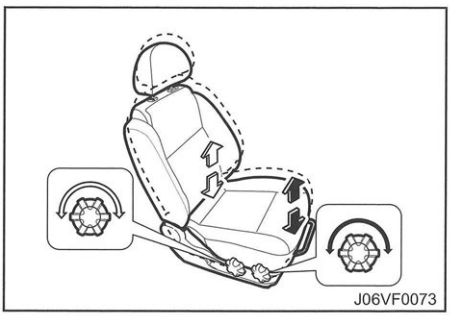


## *SEAT ADJUSTMENT cont.*

### Driver's seat height adjustment

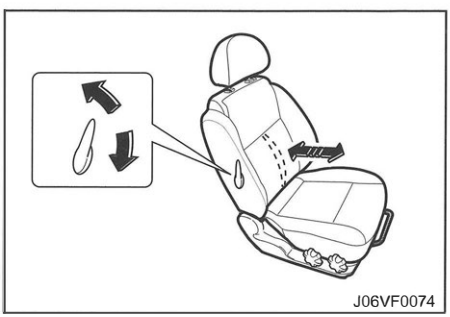
Turn the knobs on the outboard side of the seat to raise or lower the seat cushion.

Turn the front knob to adjust the height of the front of the seat cushion and the rear knob to adjust the height of the rear of the seat cushion.


J06VF0073

### Driver's seat lumbar control

The lumbar support control is located on the side of the seat. Push the lever down to increase lumbar support or lift it to decrease support.

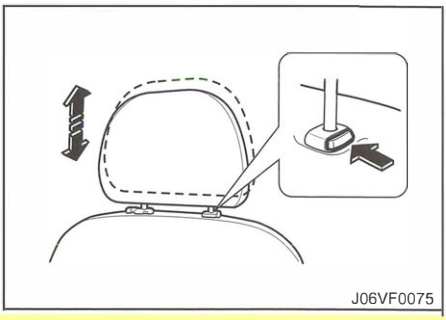

J06VF0074

# HEAD RESTRAINT ADJUSTMENT

## Adjusting the head restraints

To adjust the height of the head restraint, pull up or push down whilst pressing the lock button in.

The upper edge of the head restraint should be approximately at eye level, and not at neck level.


J06VF0075

**WARNING:**

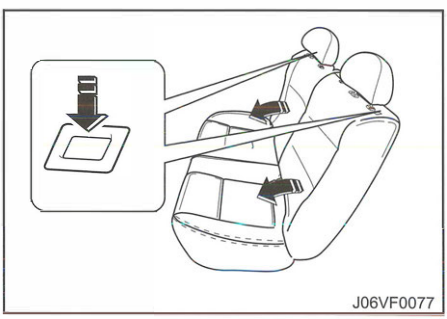
- **Do not drive the vehicle with the head restraints removed, since it will increase the risk of a neck injury in the event of an accident.**
- **Do not attempt to adjust the driver's head restraint while the vehicle is in motion. This could cause a loss of control of the vehicle.**
- **The head restraint safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.**

## Folding rear seatback

The seatbacks can be folded down for additional cargo space. The seatbacks can be folded down individually. Press the release button located at the top of the seatback and fold the seatback forward.

To return the seat to the passenger position, lift the seatback and push it rearward until it latches. Make sure the seat is locked in place.

Check to be sure that the safety belts are properly routed and are not twisted.

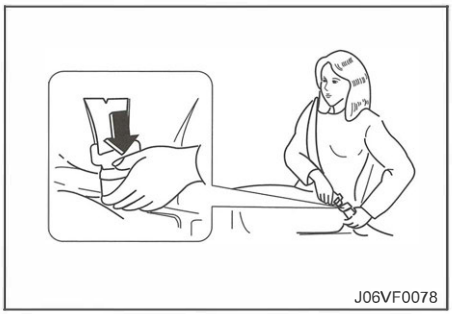

J06VF0077

**WARNING:**

- **Do not press the release on the top of the seatback while the vehicle is moving. This can cause damage or injuries to the occupants.**
- **Do not allow passengers to sit on the folded seatbacks while the vehicle is in motion. Unrestrained luggage or passengers on a folded seatback can be thrown within or ejected from the vehicle in a sudden stop or accident.**

# SEAT BELTS

## Seat belts


J06VF0078

To put on the retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a click. After fastening, settle the seat belt by running your hand under the seat belt starting at the hip, move your hand across to the buckle then up under the sash. Any extra seat belt length will retract automatically.

The lap section should be worn as low as possible across your hips, not on your waist. Ensure the sash and lap sections of the seat belt are free from twists and fit firmly.

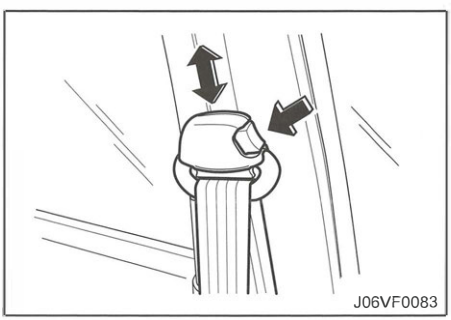
The emergency-locking retractor allows you to move freely while the vehicle is travelling normally. The retractor locks the seat belt immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the seat belt, press the release button on the buckle and allow the seat belt to retract. Check that it fully retracts without twisting or turning.

## Seat belt height adjustment

**WARNING:**

**Do not attempt to adjust the seat belt height while driving, because it could cause loss of control of the vehicle.**


J06VF0083

- Pull on the belt and press the release button to move the adjuster up or down to the proper height.
- Lock the safety belt anchor in position.
- To make sure it is locked in place, try to move the height adjuster without pressing the release button.

Adjust the height so that the seat belt passes over the wearer's shoulder and rests against the shoulder. It must not pass over the neck or upper arm. Short people should select a low seat belt guide position and tall people a higher one.

## *SEAT BELTS cont.*

### Rear seat belts

To put on the seat belt, pull the shoulder portion of the seat belt down until the metal tongue reaches the buckle. Press the metal tongue into the buckle until it clicks into position.

To release the seat belt, press the release button on the buckle. If however, the metal tongue and buckle are firmly wedged together, insert the metal tongue from one of the other seat belts into the release button slot on the buckle, and pull the metal tongue free. In the event of this occurring contact your Holden Dealer.

**WARNING:**

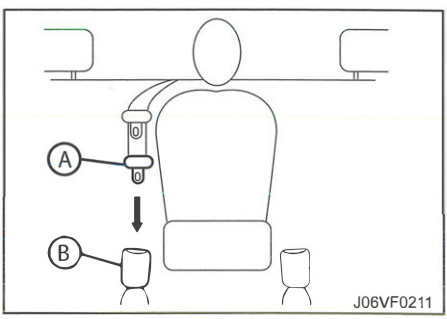
- **The tongue must engage and lock inside the buckle for the seat belt to function properly.**

### Rear center lap / shoulder seat belt

Your vehicle is equipped with a lap/shoulder seat belt in the centre rear seat. This includes a retractable seat belt, a buckle with a black release button, and a buckle with a red release button.

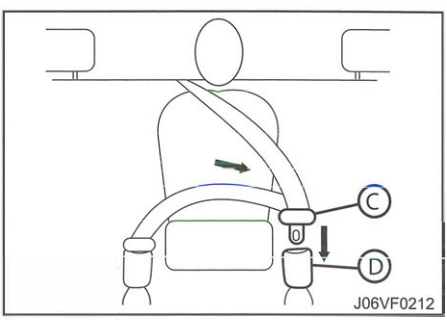
**Note:** The latch plate at the end of the center seat belt strap only fits in the buckle with the black relase button.

1. First, pull the belt straight down beside you and push the latch plate at the end of the seat belt strap **(A)** into the buckle with the black release button **(B)**.




2. Pull the belt across your body and push the second latch plate **(C)** into the buckle with the red release button **(D)**.

3. Make sure the belt strap is not twisted and is sitting smoothly across your body.



# *SEAT BELTS cont.*

## Seat belt pretensioners

The front seat belt system incorporates seat belt pretensioners. Seat belt pretensioners are part of the Supplemental Restraint System (SRS) and operate in conjunction with airbags. In the event of a severe frontal collision the belt buckles are pulled downwards, tightening both the diagonal and lap sections of the seat belt.

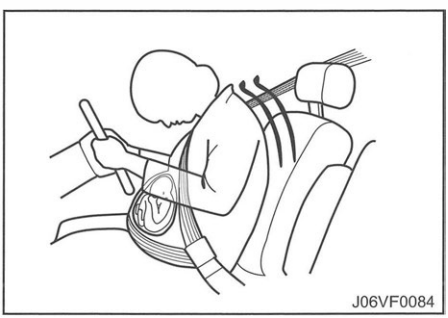
If the belt pretensioners have been activated, the SRS warning lamp on the instrument panel will not go out after the usual few seconds. This is designed to remind you that the pretensioner system has been used and therefore needs to be replaced by your Holden Dealer. The seat belts will remain operational, apart from this safety feature.

If the SRS light comes on at any other time, or if the SRS warning lamp illuminates on the instrument panel, see your Holden Dealer immediately to have the system checked. Refer to Chapter 1 for further information about warning lamps and reminder indications.

The driver and all passengers should be properly restrained at all tmes with the seat belts provided in the vehicle. Failure to do so could increase the chance of injury and / or the severity of injury in accidents.

## Seat belt use during pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear safety belts. A pregnant woman should wear a lap / shoulder belt, and the lap portion should be worn as low as possible throughout the pregnancy.


J06VF0084

The best way to protect the fetus is to protect the mother. When a safety belt is worn properly, it is less likely that the fetus will be hurt in a crash. For pregnant women, as for anyone, the key to making a seat belt effective is wearing them properly.

## *SEAT BELTS cont.*

### Maintenance of seat belts

Check the seat belts regularly. Replace the seat belts if they become frayed or damaged. The buckle and retractors mechanism operation should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer to Chapter 12.

The seat belts must be replaced if they have been in use during a severe impact, even if there is no obvious damage.

Clean the seat belts only with a solution of mild soap and lukewarm water. Never use bleach.

### Child restraints

If you are travelling with children in the vehicle, child restraints are required. (Refer to 3.9 'Which type of child restraint for your child?' in this Chapter).

**WARNING:**

- **Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.**
- **Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.**
- **Care should be taken to avoid contamination of webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.**
- **It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.**
- **Seat belts should not be worn with straps twisted.**
- **Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.**
- **No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**
- **The positioning of the tongue restrictor must never interfere with or stop the belt from fully retracting.**

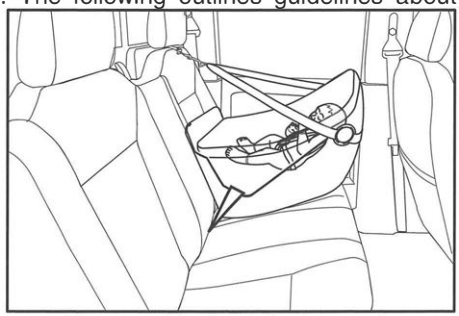
# WHICH TYPE OF CHILD RESTRAINT FOR YOUR CHILD?

Children should be restrained at all times and fitted with a child restraint appropriate to their size when travelling in a vehicle. The following outlines guidelines about selecting the appropriate restraint.

## Infants

| Rearward facing infant capsule | | |
|---|---|---|
| WEIGHT | HEIGHT | APPROX. AGE |
| Less than 9kg | Less than 70cm | Up to 6 mths |

Designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

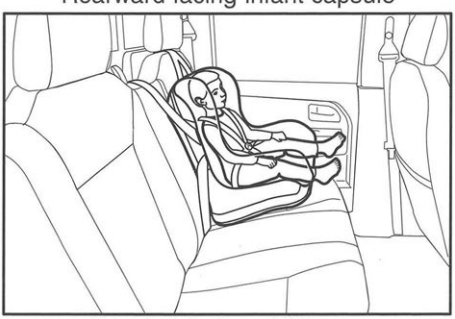


Rearward facing infant capsule

## Young children

| Forward facing child seat | | |
|---|---|---|
| WEIGHT | HEIGHT | APPROX. AGE |
| 8 to 18kg | 70 to 100cm | 6mths to 4 yrs |

For use when the child is able to sit and easily hold his or her head upright. It is also possible to purchase convertible seats which can be used as a rearward facing infant restraint or converted to a forward facing child seat.



Forward facing child seat

| Booster seat with lap / sash seat belt | | |
|---|---|---|
| WEIGHT | HEIGHT | APPROX. AGE |
| – | More than 100cm | 4 to 10 yrs |

When children outgrow a typical forward-facing child seat but they are still too small for lap / sash seat belts. A booster seat raises the child so that the knees bend comfortably, the lap / sash seat belt is correctly positioned and the child can see out the window. A rigid booster seat with a back, side wings and sash guide gives the best protection. In assessing the range of children who would benefit from booster seats, height is a better indicator than age or weight.

Booster seat with lap / sash seat belt

## Older children

A child should use a normal lap / sash seat belt only when:

- he / she can sit against the back of the rear seat with knees bent comfortably at the edge of the seat,
- lap belt rests low and snug across the hips – not across the stomach,
- sash belt is centred on shoulder and chest,
- he / she is able to stay seated like this for the entire trip.

Adult lap / sash seat belt

## CHILD RESTRAINTS

**WARNING – EXTREME HAZARD:**

- **Do not use a rearward facing child restraint on a seat protected by an air bag in front of it. The child could be seriously injured if the air bag inflates, as the child's head would be very close to the inflating air bag.**
- **Never install a child restraint in the front seat of a vehicle fitted with Side Impact Air Bags (SIAB). Remember that it is safest for children to be seated in the rear seats.**

Children should be restrained at all times when travelling in a vehicle.

If a child cannot see out of the window, do not raise the child by means of an ordinary cushion. The cushion will not stay in place in the event of a crash, and the child would slip out of the straps and become entangled. Ensure that the seat belt fits firmly around the child restraint

**WARNING:**

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.**
- **Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustrations) are to be used. Earlier types of child restraints may not attach securely to this type of anchorage.**
- **Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.**

# *CHILD RESTRAINTS cont.*

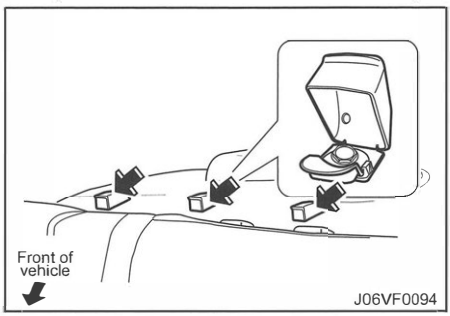
## Anchorage fittings

The following illustrations show the anchorage points for each model.

### Sedan models:

The top strap anchor brackets are already installed in the anchor points on the shelf behind the rear seat.

The anchor brackets are installed in three positions.

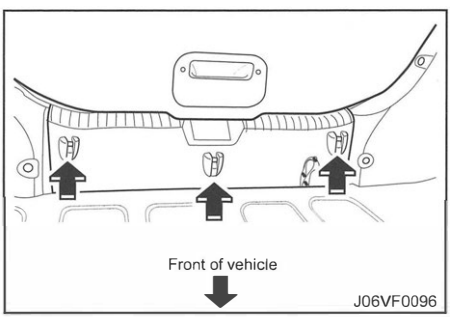



### Hatchback models:

Top strap anchor brackets are installed along the lower back wall of the rear compartment.

The anchor brackets are installed in three positions.

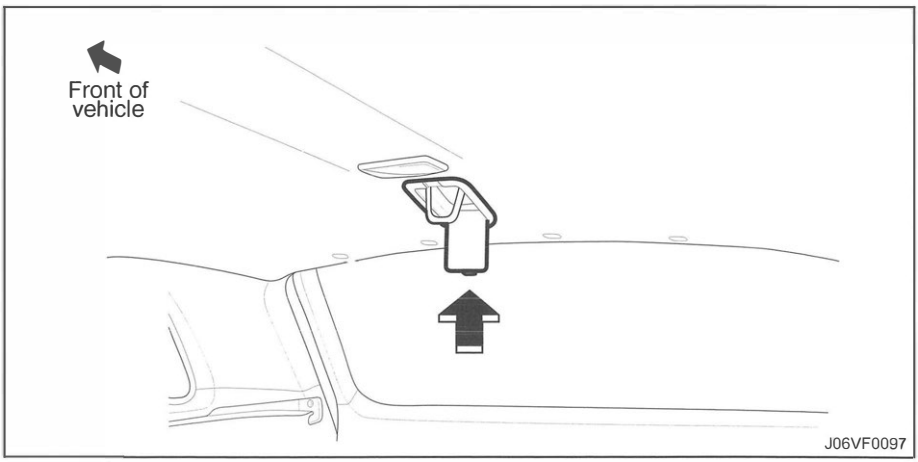
**Note:** The rear parcel shelf must be removed in order to fasten the child restraint straps to the anchorage points.



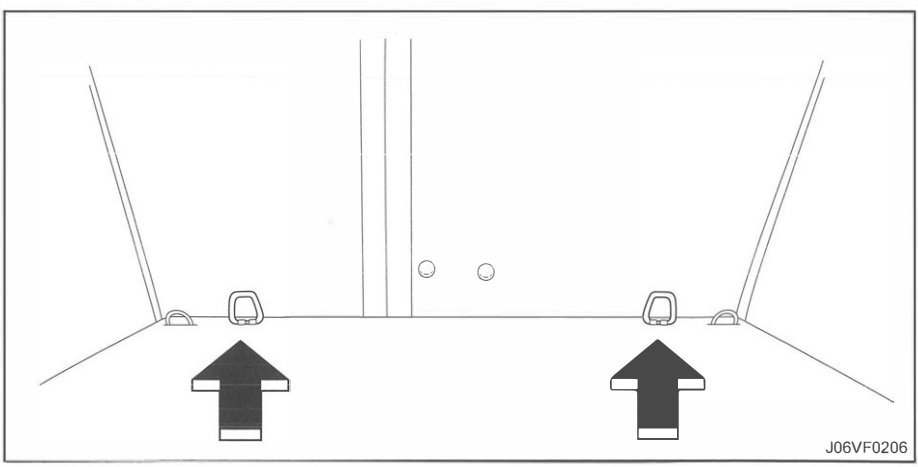
## *CHILD RESTRAINTS cont.*

**Wagon models:**

For the center rear seating position, a top strap anchor bracket has already been installed in the celling of the rear area.

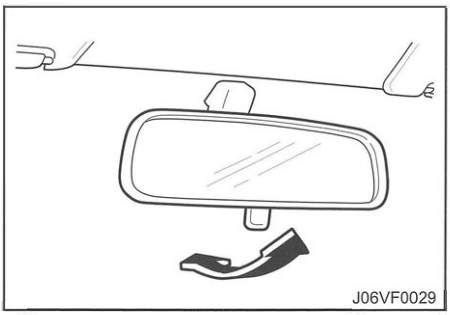



For the outboard seating position, top strap anchor brackets have already been installed on the floor of the rear cargo area.



# MIRRORS

## Inside rear view mirror

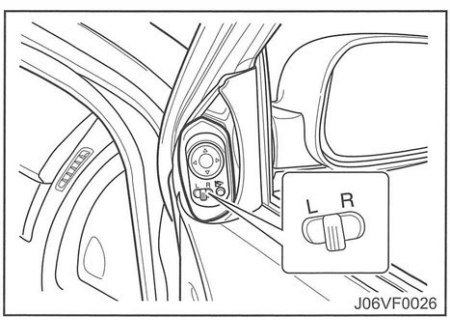



To adjust the rear view mirror, move the mirror right or left, up or down to gain the required angle.

The anti-glare lever on the lower edge of the mirror enables the reflector to be used during night driving. This reduces the glare, at night from the following vehicles headlights.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever towards you.

## Electric mirrors




The adjustment switches for the electric mirrors are located on the driver's door and are operational when the ignition switch is turned to the ON position or ACC (accessories). Moving the glass of the mirrors forcibly by hand will damage the electric mirror drive system.

Push the selector switch to the left to move the left mirror, or to the right to move the right mirror. Pushing the selector switch to the middle will disengage movement.

Push the arrow pointing in the direction you want to move the mirror up, down, left or right. It is not advisable to adjust the mirrors while driving.

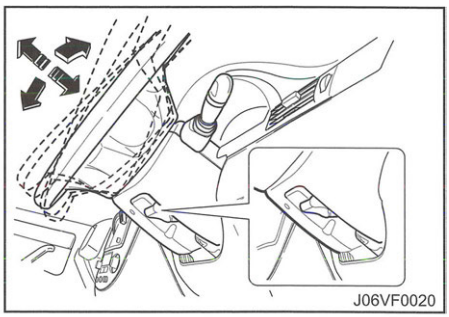
## Heated mirrors

The outside mirrors are heated when ever the rear demister is activated.

# TILT STEERING AND WINDOWS

## Tilt steering

The tilt steering lever is located on the underside of the steering column. To adjust the height or the reach of the steering wheel, push the lever away from you, this will unlock the steering column. Move the steering wheel to the desired height and reach, then pull the lever toward you. Try moving the steering wheel up and down to ensure it is securely locked into position.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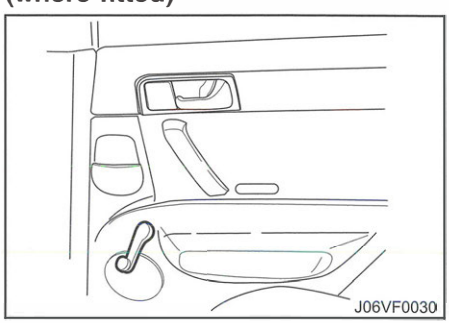
**WARNING:**

**As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.**

## Rear door window regulator handle (where fitted)

Turn the regulator handle to raise or lower the door windows.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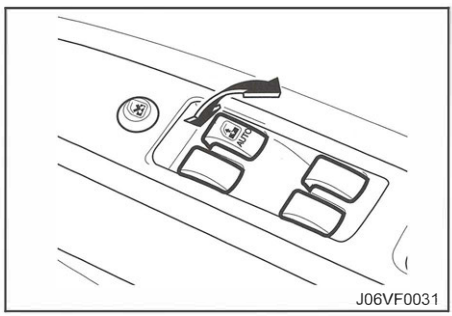
## *WINDOWS cont.*

### Power windows


J06VF0031

The main switches for the power windows are located in the driver's door. The front switches are for the front windows and the rear switches are for the rear windows (if fitted).

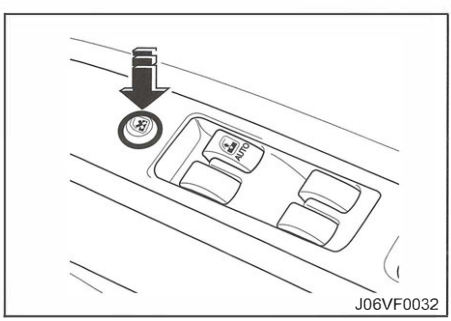
Individual switches are located on the front passenger door and in the rear doors (if fitted).

The switches for the power windows are operational when the ignition switch is on.

To open the driver's window, 'tap' the switch; the window will fully open.

To open a passenger's window however, push down on the switch and hold it down until the window reaches the desired position then release.

To close a window, pull back on the switch until the window reaches the desired position.


J06VF0032

The lock switch for the power windows is located on the driver's door armrest.

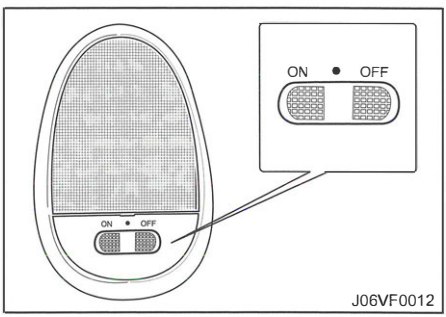
When the lock switch is in the on position the passengers are not able to operate their windows from the window switch fitted to their door. Pressing will unlock the passenger's power windows and allow operation from the individual window switches.

**WARNING:**

- **To assure the safety of children and others, ensure that all passengers have their hands, etc. inside the windows.**
- **Remove the key when leaving the vehicle, to avoid unintentional window operation by children.**
- **Ensure the door lock switch has been set to the activated position when children are in the vehicle.**

# INTERIOR LAMPS AND ANTENNA

## Interior lamp




The dome light is located in the centre of the roof and is operative regardless of the ignition switch position.

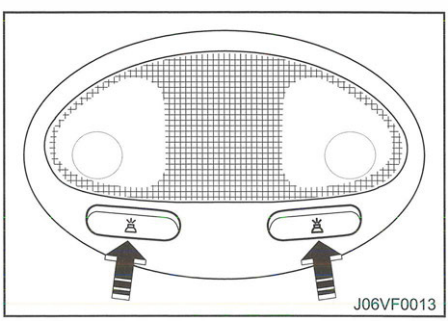
**DOOR:** The lamp will turn on when a door is opened and will turn off when all the doors are closed.

**ON:** The lamp will turn on regardless of the door position.

**OFF:** The lamp remains off.

The dome light will turn off about 7 seconds after all the doors are closed.

## Map lamps




The map lamps are located between the two sun visors. Push the switches to turn the map lamps on and off (as illustrated).

## Antenna

The antenna is integrated into the windshield on the hatchback and wagon models and the rear window on sedan model.

Damage to the inside surfaces of the windshield or rear window can cause interference with radio reception.

**WARNING:**

**Do not apply aftermarket glass tinting. The metallic film in some tinting materials will interfere with or distort the incoming radio reception. The repairs will not be covered by your warranty.**

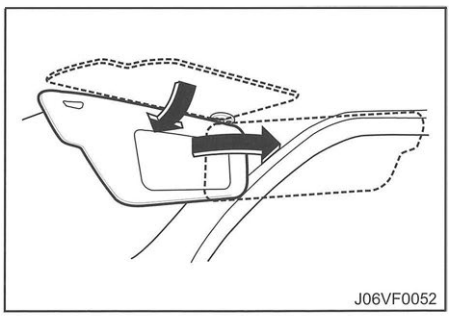
**Do not use a razor blade or anything sharp on the windshield or rear window. Make sure not to scratch the inside of the windshield or rear window and not to damage the lines.**

**You can damage the antenna and interfere with the radio's ability to pick up stations clearly. The repairs will not be covered by your warranty.**

# SUN VISORS, VANITY MIRROR, ASSIST GRIP AND CENTRE CONSOLE

## Sun visors

The sun visors are used to block out the sun. They can be pivoted to the side when unhooked.

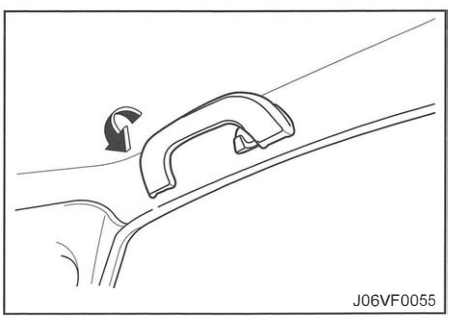



## Vanity mirror

The vanity mirror is located on the rear side of the sunvisor.

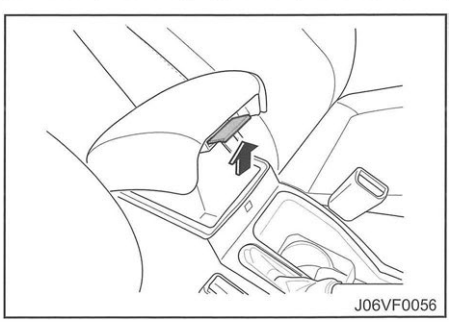
## Assist grip

Assist grips are located above the passenger windows to help occupants when getting in and out of the vehicle.



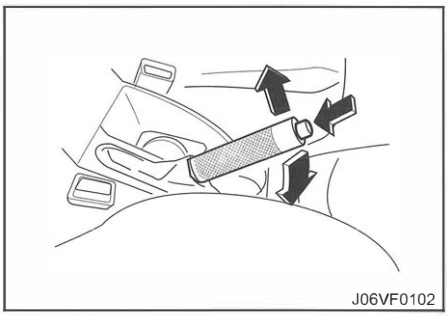

## Centre console

The centre console is located between the two front seats.



## *SUN VISORS, VANITY MIRROR, ASSIST GRIP AND CENTRE CONSOLE cont.*

### Park brake lever




Never drive with the park brake applied, as this will overheat and damage the park brake.

The park brake lever is located between the front seats.

Make sure the vehicle is stationary before you apply the parking brake.

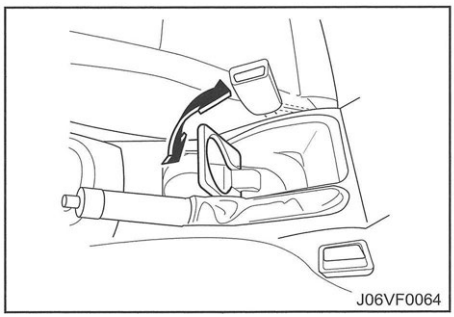
To apply the park brake lever pull upwards. To release the park brake, pull the park brake lever slightly upwards, press the release button and lower the park brake lever all the way down.

A warning lamp on the instrument panel will display when the park brake is applied.

# CUPHOLDERS AND STORAGE

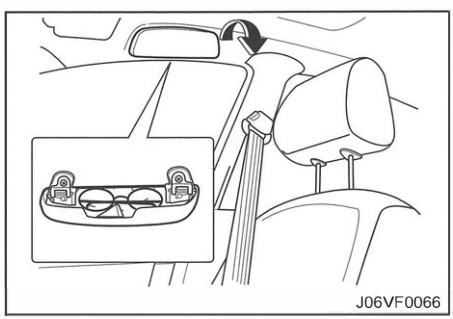
## Cupholders

To use the front cupholder in the center console, swing the inner support forward or backward.




## Sunglasses holder (if fitted)

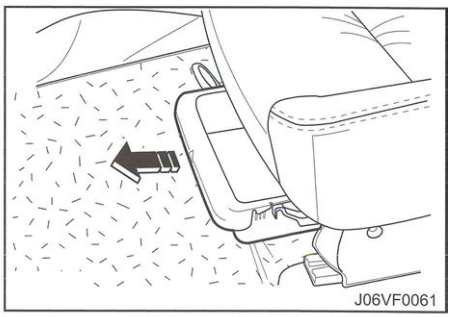
There is a storage area above the driver's door for sunglasses. Pull down and hold the upper part of the cover to open it. Release the cover to close the holder autmatically.



## *CUPHOLDERS AND STORAGE cont.*

### Underseat storage (if fitted)

Your vehicle may be equipped with a storage compartment located under the front passenger's seat. To use the storage compartment, pull the end of the tray toward the instrument panel.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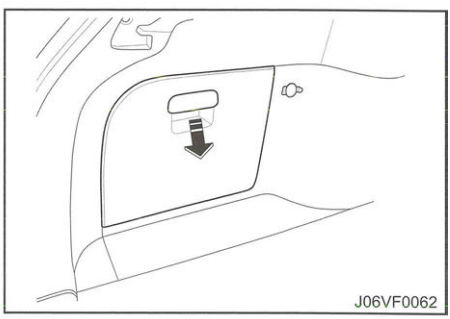
### Rear storage area (wagon only)

The wagon model is equipped with storage compartments located in the right and left side trim panel of the rear cargo area. To open the storage compartment, pull the handle.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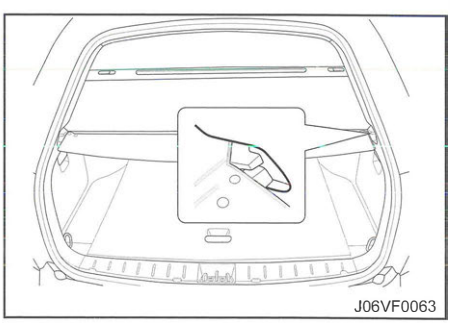
### Floor storage compartment (wagon only)

To access the floor storage bins, use the handle to lift up and remove the floor mat.

**WARNING:**

**Do not allow items in a bin to extend above the top of the bin. Otherwise, the bin or luggage floor may be damaged.**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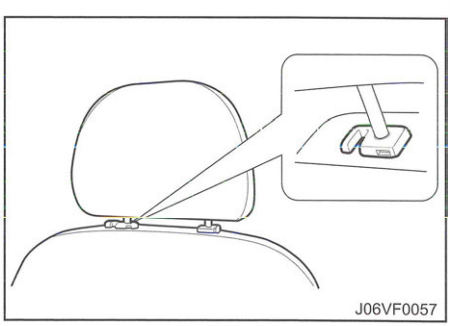
### Shopping hooks

Your vehicle is equipped with seatback shopping hooks on each front seatback. Plastic grocery bags or other suitable objects can be attached to the hooks.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CHAPTER 4

# Driving


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| 4-2 | Safety |
| 4-3 | Engine starting |
| 4-4 | Driving precautions |
| 4-7 | Manual transmission |
| 4-8 | Automatic transmission |
| 4-13 | Anti-lock brake system (ABS) |

# SAFETY

## Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Check that the tyres are not flat.

## Before driving off

1. Ensure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. Fasten seat belts.
5. Check that the warning indicators light up when you turn the key to start the engine, refer to Chapter 1.

   **Automatic only**: Have the ignition on and press the brake pedal before moving the transmission selector away from the P position.

## Parking

1. Apply the park brake.
2. Manual transmission: Place in reverse or first gear.

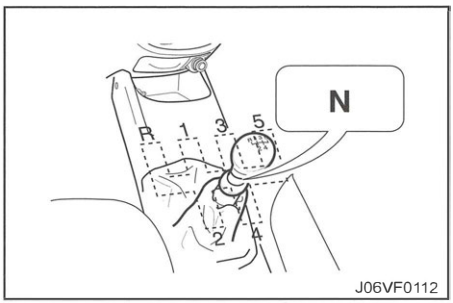
   Automatic transmission: Place in P (park) position.
3. Shut all windows.
4. Switch off all exterior lights.
5. Turn the ignition key to lock and remove the key.
6. Lock all doors.

**WARNING:**

- **To avoid the possibility of injury, always fully apply the parking brake before exiting the vehicle.**
- **Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with the hot exhaust system.**
- **Never leave the engine running in an area such as a closed garage or underground car park.**

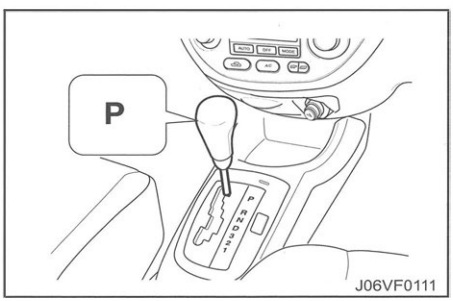
# ENGINE STARTING

1. Apply the park brake firmly and release it only after you have started the engine and are ready to drive off.




2. **Manual:** Press the clutch pedal in fully and move the gear selector lever to the N (neutral) position. The clutch pedal can now be released.

**Automatic:** Move the shift lever to the P (park) or N (neutral) position. The engine will not start if it is in any other position. As a safety precaution, you should have your foot on the brake pedal in order to shift the transmission lever out of the park position.




3. Start the engine as outlined below:

   For cold or hot starting the procedure is the same. Do not touch the accelerator pedal. Simply turn the key to the start position, and release when the engine has started.

   If the engine does not start in 10 seconds, wait another 15 seconds to let the starter motor cool down. Turn the key to start again with the accelerator pedal pushed completely down to the floor for a maximum of 10 seconds. If the engine still does not start, release the key and pedal. Wait another 15 seconds and then repeat the entire procedure. If the engine still fails to start, contact your Holden Dealer.

## Engine will not crank or start

- Remove the key from the ignition, insert the key and try starting the engine again.

Note: If the malfunction indicator lamp illuminates while attempting to start the vehicle, a fault in the vehicle's immobiliser module may be indicated. The vehicle will not start with an immobiliser fault, contact your Holder Dealer to have the fault rectified.

**PETROL ENGINE WARNING:**

**When trying to start the engine, do not hold the key in the start position for any extended time, for if unburnt fuel were to reach the catalytic converter and ignite, the catalytic converter could overheat or be destroyed by backfire.**

Note: You should not subject the engine to high load conditions (for example full throttle acceleration or high speeds) until it has completely warmed up. Otherwise, you may cause premature engine wear or engine damage.

# DRIVING PRECAUTIONS

## Running-in

These days, there is no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 km, do not exceed 90 km/h. Up to 1500 km, avoid driving at any one speed, either slow or fast, for any length of time.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 km heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

It is best to drive your new vehicle for 1500 km before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy off road towing should be attempted before 1500 km.

## Off-road

Following a period of off-road driving, particularly in wet weather, the front of the vehicle should be hosed down to clear any accumulation of mud. In particular, pay specific attention to both sides of the radiator.

## Engine misfire warning

If the engine is misfiring, reduce the vehicle speed and do not attempt to tow a caravan or trailer, until the misfiring is corrected by the nearest Holden Dealer. Continued driving while the engine is misfiring could result in the catalytic converter and exhaust system overheating, resulting in vehicle damage.

## Loose articles

Do not leave loose articles or luggage in the passenger compartment.

**WARNING:**

**Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.**

# *DRIVING PRECAUTIONS cont.*

## Loading the vehicle

Loading the vehicle changes the mass distribution and therefore the handling of the vehicle when driving. After loading the vehicle, extra care should be taken to become familiar with the feel of the vehicle while driving. Refer to Chapter 10. Refer to Chapter 7 for information on tyre pressure when the vehicle is loaded.

## Tyre grip

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as aquaplaning, may cause partial or complete loss of grip, which will affect the steering and braking of the vehicle. To reduce the possibility of aquaplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Regularly check that tyres are properly inflated.

## Brakes

Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep inclines without the engine running. Never coast with the engine switched off.

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to suit the road conditions.

Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

Your seat should be positioned so that you can push the brake pedal satisfactorily under all braking conditions.

## Power steering

The steering system fitted to your vehicle is power assisted. It has been designed to reduce steering effort. Care should be taken not to hold a prolonged turning force on the steering wheel when the steering is at left or right lock when stationary (e.g. during parking manoeuvres) as this creates high operating temperatures and pressures within the system.

If the power assistance for the steering is not working, because a fault has developed, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

## *DRIVING PRECAUTIONS cont.*

### Snow chains

When driving or fitting snow chains, ensure the following are observed:

- Snow chains may only be used at speeds up to 50 km/h.
- When driving on roads that are free of snow, snow chains should only be used for brief periods, as they will wear quickly and may snap.
- The part of the snow chain that covers the tyre tread should not be thicker than 13 mm. The part of the snow chain that wraps around the side of the tyre should not be thicker than 15 mm (including the chain clasp). The use of thicker chains may cause damage to the body of the vehicle.

### Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the vehicle's electronics (permanent damage is unlikely) when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB radio equipment that use an antenna fitted to the outside of the vehicle, should be used whenever possible.

If phones or CB radios with an integrated antenna must be used inside the vehicle, care should be taken not to operate near the dashboard area.

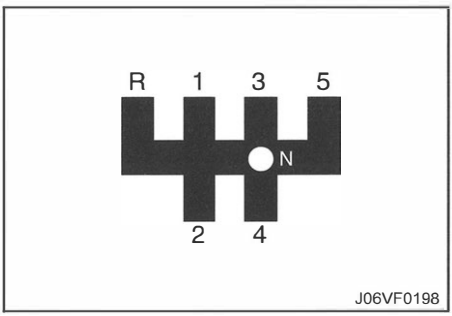
# MANUAL TRANSMISSION

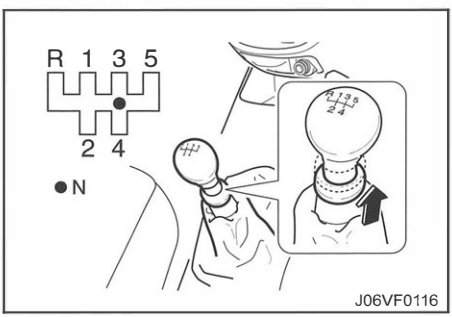
## Shift pattern

The manual transmission system has five fully synchronised forward gears and one reverse gear. The shift pattern as illustrated, is found on the top of the gear shift lever.

Never attempt to engage reverse gear until the vehicle has completely stopped. A slight pause between pressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear crashing.

In order to shift into R (reverse), you must first lift up the ring on the shift lever.




## Operating notes

- When shifting from one gear to another, ensure you press the clutch pedal in fully to avoid clashing, and possible chipping of the transmission gears.
- Shift the gear with a moderate effort to allow time for the transmission synchronisers to work properly.
- Whenever reverse is selected with the ignition on, the reversing lights will operate.
- Do not drive with your foot resting on the clutch pedal as damage to the clutch may result.
- When stopped on an incline do not hold the vehicle by slipping the clutch. Use the brakes.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.
- Do not over speed the engine when shifting down to the next lowest gear.

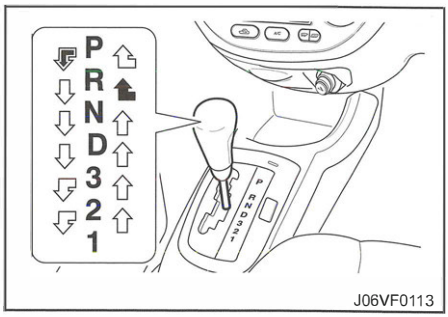
## Clutch pedal

If under normal vehicle operation the clutch pedal develops abnormal behavior, see your Holden Dealer.

## AUTOMATIC TRANSMISSION

This system has a four-speed automatic transmission. Its shift indicators are arranged with P (park) at one end, followed in sequence by R (reverse), N (neutral) and then the forward driving ranges.

To prevent the vehicle from 'creeping' you should always have your foot on the brake pedal when shifting out of P or N




This arrow indicates that you must apply the brake pedal and push the selector lever to the passenger side in order to shift.

This arrow indicates that you must push the selector lever to the passenger side in order to shift.

This arrow indicates that you must press down and hold the selector lever and push it to the passenger side in order to shift.

This arrow indicates that it is not necessary to apply the brake pedal or push the selector lever to the passenger side in order to shift.

**WARNING:**

**You can select some transmission positions without pressing down on the shift lever. However, it is recommended that you become familiar with these positions to prevent any accident or damage to your transmission that may occur due to incorrect operation.**

# AUTOMATIC TRANSMISSION cont.

## HOLD mode

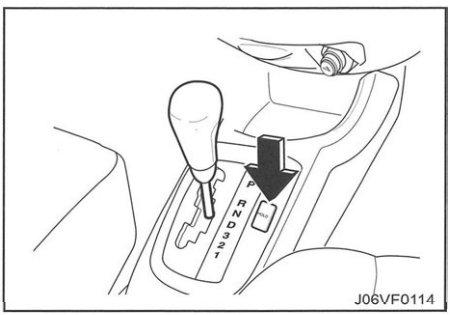
Select HOLD mode to use the automatic transmission similar to a manual transmission. Press the HOLD button to activate this feature. A light on the instrument cluster will come on when hold mode is selected. Press it again to return to normal automatic transmission operation.

When HOLD mode is activated with the transmission in D (automatic overdrive), the transmission will only shift from second through fourth gear.

When HOLD mode is activated with the transmission in 3 (third gear) the transmission will only shift from second through third gear.

When HOLD mode is activated with the transmission in 2 (second gear) or 1 (first gear), the transmission will be fixed in that gear.

Select HOLD mode in D (automatic overdrive) to have better traction when you are starting on ice, snow, or other slippery surfaces.



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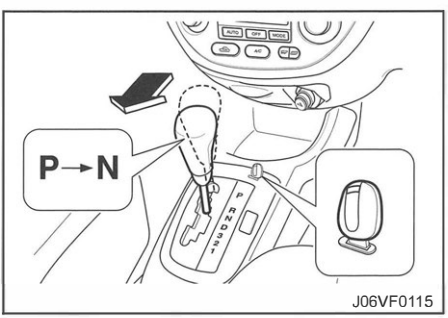
## Shift lock control system

Your vehicle has an automatic transmission shift lock control system. With the ignition on, you have to apply the brakes before you can shift out of P (park).

If you cannot shift out of P (park):

1. Turn off the ignition and remove the key.
2. Apply and hold the brake pedal.
3. Insert the ignition key into the transmission shift lock slot.
4. Shift the gear lever to N (neutral).
5. Remove the key from the slot.
6. Start the engine and shift the transmission into the desired position.
7. Refer to your Holden Dealer as soon as possible.



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## *AUTOMATIC TRANSMISSION cont.*

### Automatic transmission emergency operation

If a problem is detected with the automatic transmission, the Malfunction Indicator Lamp will illuminate.

In this situation, the transmission may not shift automatically, or shifting may be much harsher then normal. Have the vehicle serviced as soon as possible by your Holden Dealer.

If the malfunction indicator lamp stays on after starting the engine and the transmission will not shift, see "Shift lock control system" earlier in this section for more information.

## AUTOMATIC TRANSMISSION cont.

P (park) — This stops the front wheels from turning and should be selected (together with the park brake) when leaving the vehicle. Never select P until your vehicle is fully stopped. The P position is one of only two positions (the other is N) in which your engine may be started.

R (reverse) — Never select R until your vehicle is fully stopped. The reversing lights will operate when R is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.

N (neutral) — This is the out-of-gear position. You may restart a stalled engine while the vehicle is still moving or stopped.

D (drive) — This is the normal forward driving position and allows the transmission to choose the appropriate gear (1st through to 4th) for the driving conditions and optimum fuel economy.

3 (third) — This position allows the transmission to shift between 1st, 2nd and 3rd gear as conditions require. 4th gear is excluded. Use this position when going down a long hill or on a road with many sharp curves. Shift back into the D position to return to normal driving.

2 (second) — This position allows the transmission to shift between 1st and 2nd gear. Use this position when going down a moderate gradient where you want to slow down a little without using the brake. Shift back into the D position to return to normal driving.

1 (first) — Use this position when a strong braking affect is needed on a steep gradient, below 60 km/h. Even though the transmission gear selector may be in 1, the transmission does not select first gear until vehicle speed is less then 55 km/h. Take extreme care when selecting 1 if towing a trailer or caravan on a steep incline. Even though the transmission gear selector may be in 1, the transmission shifts up automatically to second gear above a specified engine speed. Move the lever back to driver position so that the transmission again shifts up into higher gears.

## AUTOMATIC TRANSMISSION cont.

### Operating notes:

- Do not go from P or N to R or D with the accelerator pedal pressed.
- When driving down a long hill, reduce your speed and select a lower range. The engine will provide a braking effect. Remember if you ride the brakes, they may overheat, resulting in reduced performance. This is particularly important when towing.
- Be careful when accelerating, shifting up, shifting down or braking on a slippery surface. The abrupt change in engine speed, such as sudden acceleration or engine braking, could cause the drive wheels to spin or skid.
- Do not press the accelerator pedal with the brakes on in either 1, 2, 3, D or R. This will overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope, use the brakes.
- Do not coast the vehicle in N as this lessens your control and the engine braking power.
- Always slow down in gusty crosswinds.
- Refer to Chapter 7 for checking automatic transmission fluid level.

# ANTI-LOCK BRAKE SYSTEM (ABS) (if fitted)

Anti-lock Brake System (ABS) continuously monitors the vehicle's brake system and prevents the wheels from locking, irrespective of the road conditions and tyre grip. It starts to regulate the braking effect as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style.

In an emergency braking situation the driver should keep full force on the brake pedal, without pumping the brake pedal. Pumping the brake pedal when ABS is fitted will reduce the braking efficiency.

The ABS warning light is illuminated for a few seconds when the ignition switch is turned on. If it does not go out, or if it comes on during driving, there is a defect in the ABS. The vehicle's brake system remains operational but without ABS assistance. You should consult your Holden Dealer as soon as possible.

The braking effect is regulated by the ABS every millisecond during braking.

When your vehicle is in a critical braking condition ABS will make itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

Shortly after driving off, the system performs a self-check. The self-check may be audible.

## Brake pedal

Where possible, avoid braking hard. Smooth operation of the brake pedal will increase the life of the brakes and reduce the wear on the braking system. When the vehicle is descending a steep slope, it is advisable to use the foot brake in combination with the engine braking effect.

## Brake pedal free play

If under normal vehicle operation the brake pedal develops abnormal behavior, see your Holden Dealer.

## Disc brake wear indicators

The front disc brakes have built-in wear indicators which make a high pitched squealing or cricket-like warning sound when the brake lining is worn to where new linings are needed. This sound can come and go, or be heard all the time when the wheels are rolling. This noise may stop when the brake pedal is pushed down firmly. Consult your Holden Dealer and have your brakes checked if you hear this noise. Extensive damage can result if the linings are not replaced when needed.

## ***Notes***

CHAPTER 5

# Fuel


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5-2 Fuel

5-3 Fuel filling

5-4 Petrol – emission control

5-5 Reducing fuel consumption

# FUEL

**EXHAUST WARNING: CARBON MONOXIDE POISONING**

- **Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.**
- **You could inhale the gases if the exhaust system on your vehicle is faulty.**
- **To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:**
  - **each time the vehicle is serviced**
  - **whenever a change is noticed in the sound of the exhaust system**
  - **whenever the exhaust system, underbody or rear of the vehicle is damaged.**
- **Take the vehicle to your Holden dealer if you think your vehicle needs inspecting for any of the above reasons.**
- **Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Turn the fan on using any setting that brings outside air into the vehicle. Do not run the engine in an enclosed area (such as a garage) any longer than needed to move the vehicle.**
- **Be sure to seal any unused top strap anchor location holes with the supplied plug or with a suitable bolt. Otherwise exhaust gas may enter the vehicle through these holes. See "Child Restraints" in Chapter 3.**

**PETROL WARNING:**

- **Petrol is extremely flammable and highly explosive.**
- **Always turn off the engine and any mobile phones when refuelling.**
- **Do not smoke or allow open flames or sparks near the vehicle when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay by a Holden dealer.**
- **Static electricity can ignite fuel vapour. Only use pumps, hoses and containers that are properly grounded when filling up with fuel.**
- **To avoid injury, to you and to others, read and follow all instructions on the petrol station pump.**

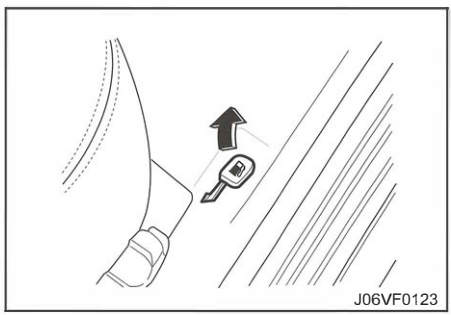
**ETHANOL WARNING:**

- **Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and personal injury. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.**
- **It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.**

# FUEL FILLING

To release the fuel filler door, pull up on the release lever. The release lever is located near the front corner of the driver's seat.

Remove the fuel cap by turning it anticlockwise.




**FUEL CAP WARNING:**

**If you open the cap rapidly while pressure in the tank is high, fuel may spray out from the tank. Before you fully open the cap, turn it slightly to release the pressure from inside the tank.**

After refuelling, turn the fuel cap clockwise until a clicking sound is heard, then push the fuel filler door closed. When closing the fuel door, make sure that it latches.

**Note:** Use UNLEADED PETROL of 91 octane rating or higher.

High octane unleaded petrol (premium etc.) may be used, but is not required for your vehicle. The use of fuel with a lower octane rating than recommended may cause engine knock. Continued use of such fuel can cause engine damage and void the warranty. If you detect a heavy engine knock even when using fuel of the recommended octane rating, have the engine checked.

Petrol tanks should always be filled at the intermediate or fast fill rate. Do not add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

If you accidentally spill fuel on the vehicles exterior surfaces, it can damage the paint. Wash it off as soon as possible.

## Petrol filler nozzle restrictor

To help protect the atmosphere, your vehicle has been designed to operate on unleaded petrol. A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used. This allows the smaller diameter unleaded petrol nozzle to open the hinged flap inside the filler neck, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap.

**WARNING:**

**The use of fuel, other than the fuel specified, may cause serious damage to your vehicle and may void your warranty. Only clean fuel of good quality should be used.**

# PETROL – EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions can contribute to smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

- **Evaporative Emission Control System**

  This system is designed to prevent the escape of fuel vapour from the fuel system and recycles it through the normal combustion process.

- **Crankcase Emission Control System**

  This system is designed to prevent blow-by gases from escaping into the atmosphere and recycles them through the combustion process.

- **Exhaust Emission Control System**

  The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your vehicle's service manual and / or the emission label inside the engine compartment (on the passenger side strut tower) of your vehicle.

## Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine, engine control system or exhaust system of the vehicle must not be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

**WARNING:**

**Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules, refer to A.D.R. 28/01 (External Noise for Motor Vehicles), A.D.R. 37/01 (Emission Control for Light Vehicles) and A.D.R. 79/00 (Emission Control for Light Vehicles). It is also illegal to drive a vehicle modified in this way.**

## First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

## Maintenance requirements

To ensure continuing compliance with the regulations, you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the maintenance schedule in Chapter 12. It is recommended that the necessary servicing be performed by an authorised Holden dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

# REDUCING FUEL CONSUMPTION

## Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance the maintenance schedule in Chapter 12. This will ensure items such as: the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

## Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance and waste fuel, refer to Chapter 7.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

## Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag which wastes fuel and causes uneven and premature tyre wear.

## Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes, turn off the engine to conserve fuel.

## Accelerating, driving and braking

Accelerate gently and avoid rapid accelerating from lights or stop signs. Sudden bursts of speed, full throttle acceleration and hard braking are certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

## Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

## Air conditioning

Turn off the air conditioning when not required. However, once every two weeks, with the engine running, switch the air conditioner on for five to 10 minutes, even in winter, to lubricate the seals.

## Loading

Unnecessary weight increases fuel consumption, especially when accelerating.

## ***Notes***

CHAPTER 6

# Emergencies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| 6- 7 | Towing your disabled vehicle |
| 6- 9 | Engine overheating |
| 6- 12 | Flat battery |
| 6- 14 | Airbags |
| 6- 18 | Fuses |
| 6- 24 | Bulb replacement |


Your new vehicle is covered for 3 years by 24 hour Roadside Assistance, refer to Chapter 9.

# ACCIDENTS

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to-mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for the rescuers, victims and by standers. The following notes may help.

## Part 1. Accident – being involved

If you are involved in an accident you are advised to do as follows:

- Stop immediately and remember to turn off the engine and apply the park brake.
- Remember that time is vital. Remain calm and alert. Think quickly and clearly.
- Give all possible assistance to all injured persons (see Part 3. Medical assistance).
- Send for police and ambulance if anyone has been injured. Give information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.
- Warn all other traffic approaching the scene. Turn off all ignition switches. Stop any smoking and mobile phone use near spilt petrol. In darkness, try and light up the area to warn others – use hazard lights, a torch, headlights etc. Do not use flammable items.
- Clear the road of accident debris.
- Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.
- If damage to property has only occurred, report the facts to the owner of the damaged property, to his or her representative, to any police present at the scene or to the nearest Police Station.
- Try to note all important facts because such details may be important if needed later.

## Part 2. Accident– being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- Do not stop at the scene of an accident just to be a spectator.
- Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons (see Part 3. Medical assistance).

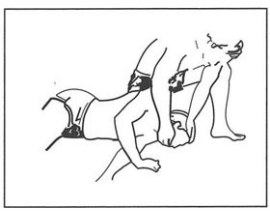
# ACCIDENTS cont.

## Part 3. Medical assistance

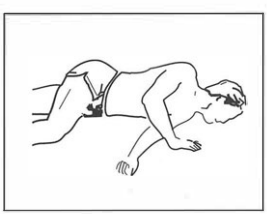
This information is basic first aid information which is intended as a guide only and may not be applicable in all situations. You should always defer to a trained medical officer or other person with first aid knowledge. Protective equipment, such as rubber gloves are recommended.

Keep calm and think clearly. Your experience may not be much but do your best.

- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the airway is clear then mouth-to-mouth resuscitation may be needed at once.
- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. Avoid bending or twisting a neck or back. Keep them straight. All injured limbs require support when an injured person has to be moved.
- Unconscious people can choke. To help avoid this:
  - Carefully turn the person to one side.
  - Tilt the head back slightly.
  - Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.



- Provided it is not dangerous to do so due to injuries, an unconscious person will do best in the following position:
  - Lay the person on one side.
  - Bend the uppermost knee until the thigh is at a right angle to the body.
  - Bend the uppermost shoulder and elbow so that the hand lies near the face.
  - Gently pull the underneath arm so that it rests straight on the ground free of any body weight.



- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound but never use a tourniquet.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. It is best not to give any fluids and never alcohol.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

# FLAT TYRE

If using a jack other than the one supplied with the vehicle, refer to Chapter 7 for lifting positions.

**WARNING:**

- **Use the jack only for lifting the vehicle when changing wheels.**
- **Never get beneath the vehicle when it is only supported by the jack.**
- **Do not start or run the engine while the vehicle is only supported by the jack.**
- **All passengers should be out of the vehicle when it is being jacked.**
- **Use the jack only at the designated lifting points. Use in other locations can damage the vehicle.**
- **The vehicle should only be jacked on hard, level surfaces.**

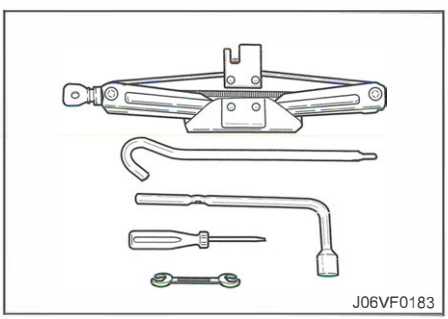
1. Park on level surface, ensure the wheels are pointing straight ahead and set the parking brake firmly.
2. Remove the ignition key (to lock the steering) and place manual transmissions in reverse gear or automatic transmissions in park.

**Removing the jack and tools:**

**Sedan/Hatchback models:**

The jack and tool bag are in a storage compartment in the floor of the luggage compartment area.

Remove the floor cover to access the compartment.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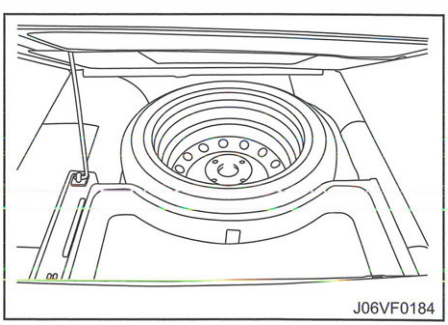
**Wagon models:**

1. To access the spare wheel and tools in wagon models fold the floor cover by pulling the handle upward.
2. Remove the tool tray.
3. Release the prop from its retainer and put the prop into the slot.
4. Remove the wheel.
5. To access the tools, pull the strap on the tool box cover upward.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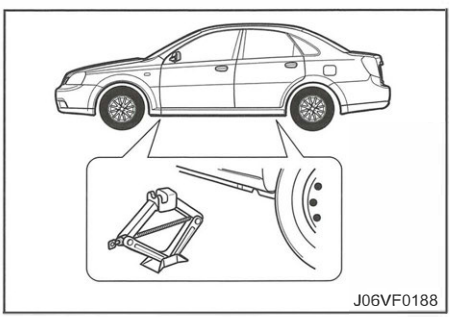
## *FLAT TYRE cont.*

1. Remove the jack, jacking tools and spare tyre from the rear luggage compartment area.
2. If your vehicle has bolt-on wheel covers, remove the wheel cover by completely loosening the plastic nut caps by hand with the aid of the wheel wrench.
3. Use the wheel wrench to loosen the wheel nuts or bolts by one turn each.
4. Attach the jack handle and wheel wrench to the jack.
5. Turn the jack handle clockwise to raise the jack lift head slightly.
6. Place the jack under the jacking point nearest the tyre your want to change.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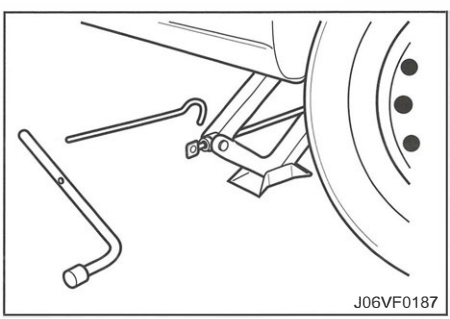
**WARNING:**

**Failure to position the jack as described could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.**

7. Turn the jack handle clockwise to raise the jack.
8. Raise the jack until the jack head fits firmly into the notch. Then raise the vehicle off the ground until there is room for the spare tyre to fit.

   Do not raise the vehicle off the ground more then is necessary to change the wheel.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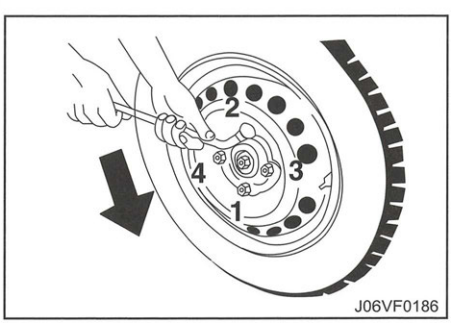
9. Remove the wheel nuts or bolts and take off the wheel.



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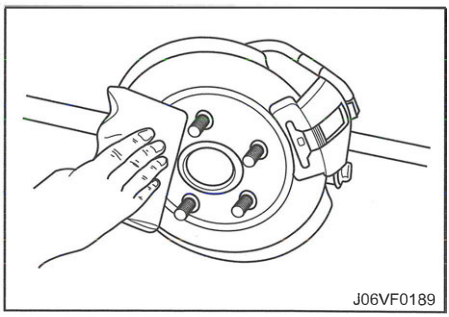
## *FLAT TYRE cont.*

10. Remove any dirt or rust from the wheel nuts and studs, mounting surfaces and spare wheel.
11. Place the spare wheel on the wheel mounting surface.
12. Install the wheel nuts and tighten by hand.
13. Turn the jack handle couterclockwise to lower the vehicle.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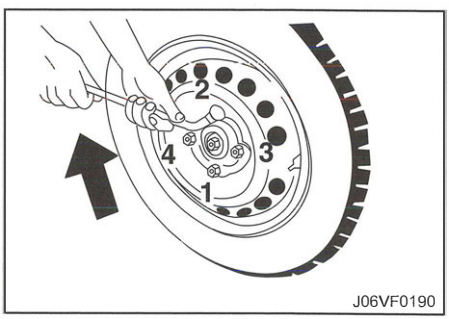
14. Tighten the nuts or bolts firmly with a wrench in the pattern shown. The proper torque is 120 Nm (Newton metres)
15. Reinstall the wheel cover (if fitted). When you install a bolt-on wheel cover, if equipped, tighten the plastic nut caps firstly by hand and then with the wheel wrench.
16. Store all the equipment in the proper storage area. To reduce rattling, stow the jack, jack handle and tools securely in the floor storage compartment.
17. Store the flat tyre where the spare wheel was stored. Have the flat tyre fixed or replaced as soon as you can in case you need to use it again.



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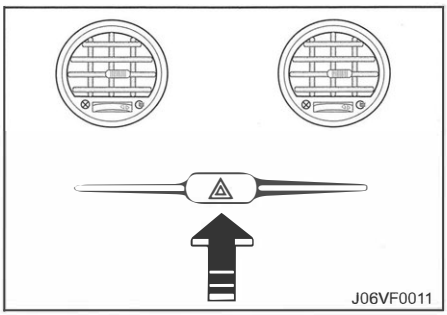
**WARNING:**

- **As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 120 Nm (Newton metres) and have the new wheel balanced on the vehicle.**
- **Wheel nuts should be tightened evenly to the correct torque in the sequence shown, as wheel nuts which have not been properly tightened could eventually allow the wheel to come off while the vehicle is moving!**

# TOWING YOUR DISABLED VEHICLE

## Hazard warning flasher




Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Turn the hazard warning flasher on or off by pressing the hazard warning switch, which is located in the middle of the dash. Both indicator symbols on the instrument panel will flash simultaneously, and all four external signal lights will flash continuously.

The hazard warning flasher will work with the ignition switch in any position.

# TOWING YOUR DISABLED VEHICLE

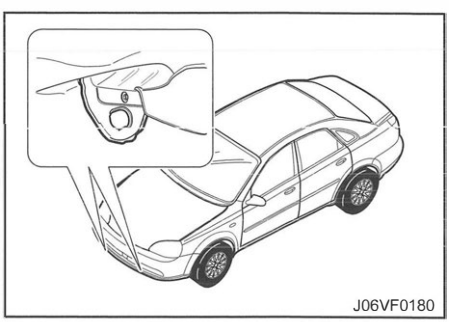
## Emergency towing

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. State and local laws must be followed. In an emergency, the vehicle may be towed on all four wheels in the following manner:

1. Fit the towing equipment to the front towing eyes located under the front bumper. Use of two hooks with the load evenly spread, rather than one, is recommended. Do not attach towing equipment to the bumpers or brackets, suspension or cross members.
2. Place the transmission in N (netural) and release the park brake.
3. Switch the ignition key to the ACC (accessories) position. This frees the steering lock and allows the correct operation of windscreen wipers and turn signals.
4. For safety and to prevent damage to the vehicle, avoid jerky movements and drive slowly during towing operatioins.
5. Remember that power assist for brakes and power steering are not available when the engine is off. The brakes and steering still function, but take greater effort.
6. To prevent exhaust fumes from the towing vehicle entering the towed vehicle, close the windows and move heating and ventilation controls to the 'recirculate' position.
7. Vehicles fitted with automatic transmissions must not be towed for more then 55 km or at over 55km/h.
8. Vehicles with damaged transmissions must not be towed.
9. Only the driver should be inside a towed vehicle.

## Front towing eyes

The front towing eyes are provided under the front bumper. A driver must be in the vehicle to steer it and operate the brakes. Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must be in good condition.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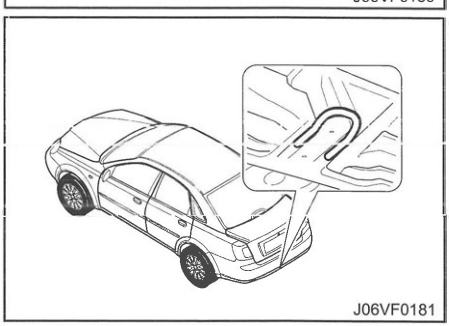
## Rear towing hook

When towing another vehicle, use the rear towing hook. It should be used only in an emergency situation.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# ENGINE OVERHEATING

**WARNING:**

**Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.**

**Continued driving even for a short time could result in a fire or vehicle damage.**

If the coolant temperature gauge needle should move to the H position and remain there for more than 30 seconds, pull over to the side of the road. Leave the engine idling while you step out of the vehicle to check that the cooling fan is working.

**WARNING:**

**Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.**

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes, stop the engine and remove the ignition key.

Look for leaks from the radiator hoses and connections, heater hoses and connections, radiator and water pump and fan belt. Take care when checking all of these areas as they may still be hot.

If you find a major leak or other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level in the radiator reservoir tank, refer to Chapter 7 for the location.

**WARNING:**

**Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.**

## *ENGINE OVERHEATING cont.*

If you see or hear steam coming from the engine, stop and turn the engine off. Do not open the bonnet until the engine has cooled down.

### If the temperature gauge is high with no sign of steam:

1. Pull over and stop the vehicle as soon as it is safe to do so.
2. Turn off your air conditioner.
3. Run the engine at idle speed for about 3 minutes.

The engine cooling fan should be running.

### If the fan is not operating and steam is visible:

1. Turn off the engine.
2. Move away from the vehicle without opening the bonnet.
3. Let the engine cool down.
4. When steam is no longer visible, carefully open the bonnet.
5. Have the vehicle serviced as soon as possible.

### If the fan is operating with no sign of steam:

1. Open the bonnet.
2. Let the engine idle until it is cool.
3. Check the coolant level.

### If the fan is operating but the engine temperature does not fall:

1. Turn off the engine.
2. Open the bonnet.
3. Let the engine cool down.
4. Check the coolant level.

### If the coolant level is low, there may be a leak in the cooling system:

Check for leaks in the following areas:

1. Radiator
2. Radiator hoses
3. Radiator connections
4. Heater hoses
5. Heater hose connections
6. Water pump

## ENGINE OVERHEATING cont.

**WARNING:**

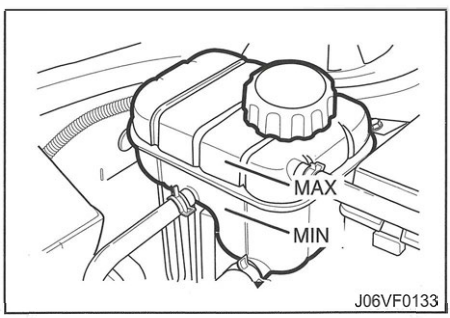
**The cooling system is pressurised, so to avoid injury please read all of the following instructions before attempting to add coolant.**

Without undoing the coolant tank cap, look at the level of the coolant in the see-through coolant tank.

When the engine is hot the level should be above the MIN mark.

If the level is at or below the MIN mark when the engine is hot, coolant will need to be added as follows:

- Allow the engine to cool a little.
- The bottle is pressurised, so cover the cap with a thick cloth. Remove the cap very slowly to allow any pressure to escape.
- If water is added it should be clean.
- Top up the coolant tank to the MAX mark while the engine is idling.
- Replace the coolant tank cap.




If after taking one or more of the above actions the temperature gauge no longer indicates an overheat condition you can resume driving at a reduced speed. Return to normal driving after 10 minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the vehicle attended to, as soon as possible, by a Holden Dealer.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- Climbing a long hill.
- Stopping immediately after high speed driving.
- Idling for long periods in traffic.
- Towing a heavily laden trailer.

Note: It may help to turn off the air conditioner in these conditions.

Refer to Chapter 7 for instructions to help protect your cooling system from overheating.

# FLAT BATTERY

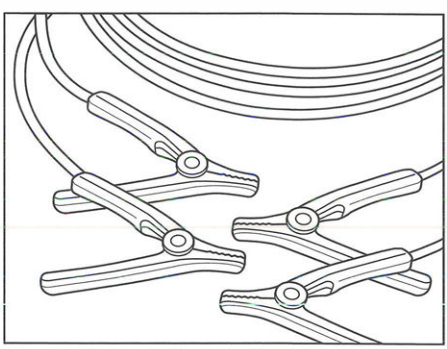
**WARNING:**

- **Do not push start or tow start your vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can jump start, but not push start your vehicle.**
- **To protect your vehicle's electrical system never disconnect the battery when the engine is running. Never start the engine while the battery is disconnected. Never charge the battery while it is still connected to the vehicle, first disconnect the negative cable, then the positive cable. The polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged when reconnecting. First connect the positive cable, then the negative cable.**

If your vehicle will not start due to a discharged battery, it can often be started by using energy from another battery, a procedure called jump starting.

Please read the following procedure before attempting to jump start your vehicle.

However, if after reading the following procedure you are still unsure about jump starting we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.



## Jump starting

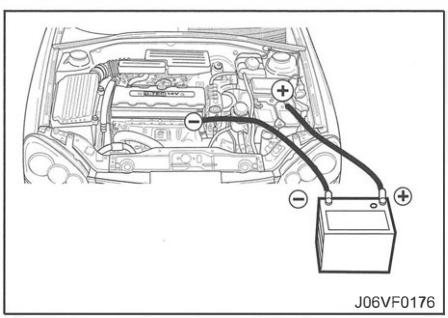
**WARNING:**

**Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:**

- **Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.**
- **Do not smoke near a battery.**
- **Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.**
- **Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Carefully follow each step in the jump starting procedures.**
- **Never use a quick charger to start your engine.**
- **Do not lean over the battery during jump starting.**

## *FLAT BATTERY cont.*

1. The battery in your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle **must** also have a negative earth and a 12 volt rating.
2. Position the two vehicles so that they are not touching, apply the park brakes, if your vehicle is fitted with an automatic transmission, place in P (park) or for a manual transmission, place into neutral. Turn the ignition to lock and switch off all the lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.
3. Attach one end of the red jumper lead to the positive terminal of the charged battery (identified by a red colour, + or P) and the other end of the red jumper lead to the positive terminal of the flat battery.




4. Attach one end of the black jumper lead to the negative terminal of the charged battery (identified by a black colour, - or N) and the other end of the black jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery.

**Note:** Do not connect directly to the negative terminal of the battery, as this can cause sparks.

5. When making all connections take care that the jumper lead clamps do not touch each other. Also, ensure that the jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.
6. Start the engine in the assisting vehicle and run the engine at a moderate speed. Then start the engine with the flat battery. Attempts to start the engine with the flat battery should be made at one minute intervals and should not last longer than 15 seconds.
7. After starting, allow both engines to idle for approximately 3 minutes with the leads still connected.
8. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

# AIRBAGS

## Operation

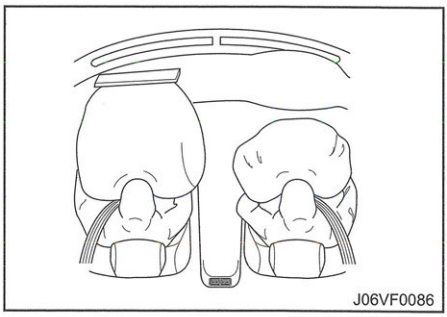
The vehicle is fitted with front airbags and side impact airbags for both the driver and front passenger.

The driver's airbag is stored inside the steering wheel, AIRBAG is stamped on the steering wheel.

The front passenger's airbag is stored in the dash panel. The fitment of a passenger's airbag is recognised by the wording SRS AIRBAG above the glovebox and a label attached under the passenger's side sunvisor.

The side impact airbags (SIAB) for the driver and front passenger are stored in the side of the seat backs closest to the door. The fitment of side impact airbags is recognised by the word AIRBAG on the side of the seat nearest the doors.

The two front airbags operates as a pair and are triggered simultaneously in the even of certain severe frontal impacts. However, side impact airbags are triggered independently.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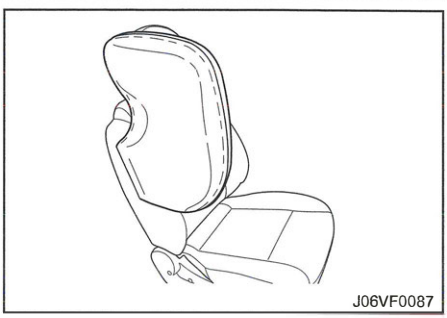

J06VF0087

In certain severe front end collisions, both front airbags inflate, assisting seat belts to restrain forward body movement. A side impact airbag will only trigger on the side of the vehicle that is struck.

When airbags inflate an operating noise may be heard and a small amount of smoke-like gas is released. The gas is harmless and does not indicate malfunction or fire. The airbag then deflates, with the whole process taking only a moment.

**WARNING:**

**Airbags are part of the Supplemental Restraint System (SRS) as they assist, but do not replace seat belts. Airbags are not designed to inflate if the vehicle is hit from the rear or is overturned. Seat belts must be worn by all passengers whenever the vehicle is moving.**

An impact caused by dropping into a large pothole or depression in the road may or may not inflate the airbags. Seat belts (by law) should be worn by all passengers whenever the vehicle is moving.

Airbags inflate with great force. If you are too close to an inflating airbag it could seriously injure you. Seat belts help keep you in position for airbag inflation in a crash.

The airbag lamp on the instrument panel illuminates for a few seconds when the ignition is switched on. This is to indicate that the airbags are operational. If the light does not blink when the ignition is switched to on, or if it illuminates when driving, this

## AIRBAGS cont.

may indicate that there is a fault in the airbag system. Consult your Holden Dealer as soon as possible.

If the airbag system is handled incorrectly it can be set off for up to 15 seconds after the ignition has been turned off and the battery disconnected, and cause injury. Follow proper service procedures and make sure that the person performing the work for you is qualified to do so.

After use the whole airbag system will have to be replaced.

After an accident in which the front airbag system is triggered, the airbag system (steering wheel steering column, both front airbag assemblies, both front seat belt assemblies, passenge's airbag cover and dash panel and the SRS control module) must be replaced. After side impact airbag deployement, the relevant seat, seat belt, sensor and control module require replacement. It is recommended that this work be done by a Holden Dealer.

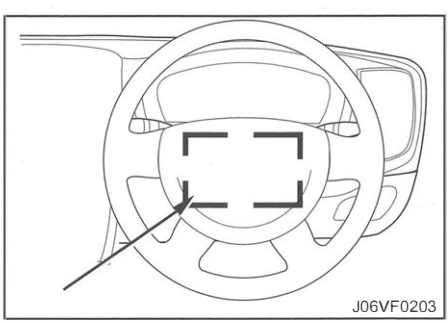
**WARNING:**

- **Front passenger's airbag: The dashboard area must be kept clear. Do not place any objects over the dashboard or between an airbag and yourself. Nothing should hang from the sunvisor or mirror and a passenger must not rest their feet on the dashboard.**
- **Driver's airbag: The horn pad must not be covered with adhesive or any other material. The driver should adjust the seat as far back as possible and sit back as far as possible while still mainting control of the vehicle.**
- **Side impact airbags: Do not fit unauthorised seat covers as they may impair the deployment of the side impact airbags. Do not position your body or any object (including pillows) between front seats and doors. Front seat occupants should not lean on or sleep against the door. Always sit centrally in the seat.**

The system should also be inspected if the steering wheel or dashboard area is scratched, cracked or damaged.

**WARNING:**

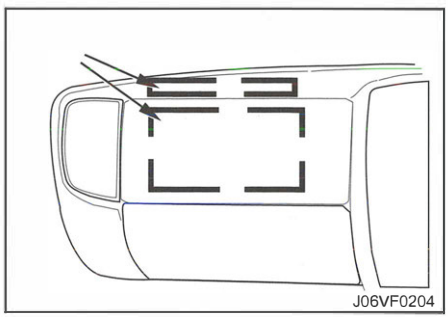
**The horn pad must not be covered with adhesive or any other material, as this may hinder airbag operation.**



## *AIRBAGS cont.*

**WARNING:**

**The dashboard area must also be kept clear with nothing around this area, hanging from the sun visor or stuck to the dash.**




Extensive design and testing has gone into the airbag system. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. It is recommended that any work to the electrical system, steering column, dashboard area, steering wheel or airbag system be carried out by a Holden Dealer.

### Bull bar

Fitting a bull bar, or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the airbag to inflate, reducing its effectiveness. Bull bars should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision. Bull bars are only recommended for country or outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

## *AIRBAGS cont.*

### Passenger airbag and child restraints

**WARNING – EXTREME HAZARD:**

- **Do not use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.**
- **It is always better to install a child restraint in the rear seat.**

For information about fitting a child restraint, refer to Chapter 3.

Do not touch any airbag system components or wires.

The wires can be identified by yellow tape wrapping or yellow tubing and the connectors are also yellow.

Scrapping a vehicle that has an uninflated airbag can be hazardous. Ask your Holden Dealer for assistance.

**WARNING:**

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.**
- **Only child restraints that have clips to attach to the vehicle's anchorage fitting are to be used. Earlier types of child restraints may not attach securely to this type of anchor.**
- **Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.**

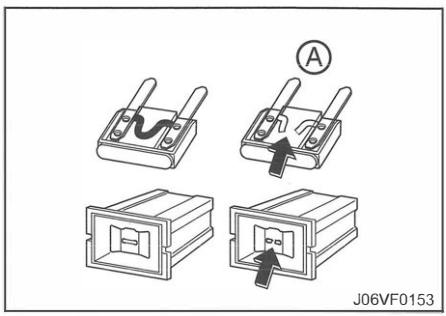
# FUSES

## Fuse boxes

There are two fuse boxes; one is on the driver's side wall of the instrument panel, visible when the door is open and the other is located in the engine compartment next to the coolant reservoir.

Spare fuses and a fuse extractor are located in the engine compartment fuse block.

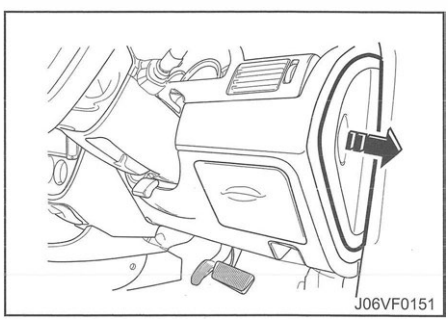
To determine whether or not a fuse is blown, it is necessary to pull out the suspect fuse and examine the wire in the fuse. A blown fuse can be recognized by its melted wire. If a fuse blows twice in a row a fault is indicated. The cause should be located and fixed by a Holden Dealer.




## Dash panel fuses

To open the fuse cover in the dash panel, open the driver's side door, pull the top of the cover out.

Always ensure the cover is in place after use. The fuse amperage is shown on the inside of the fuse cover.



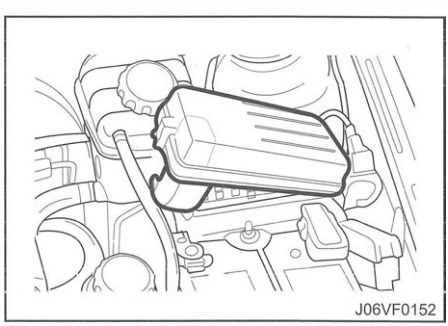

## Fuse box in engine compartment

This fuse box is located on the passenger side of the engine compartment, it contains circuit fuses, main fuses and relays.

To remove the cover, press the catch on the side of the fuse box towards the engine and release the two tabs at the opposite side.

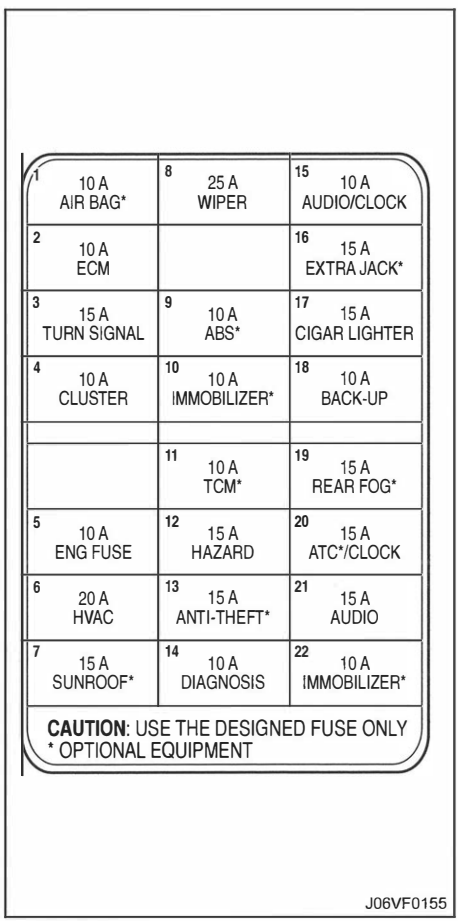
Always ensure the cover is correctly fitted after replacing or inspecting fuses.

The fuses amperage are shown on the inside of the fuse cover.



## *FUSES cont.*

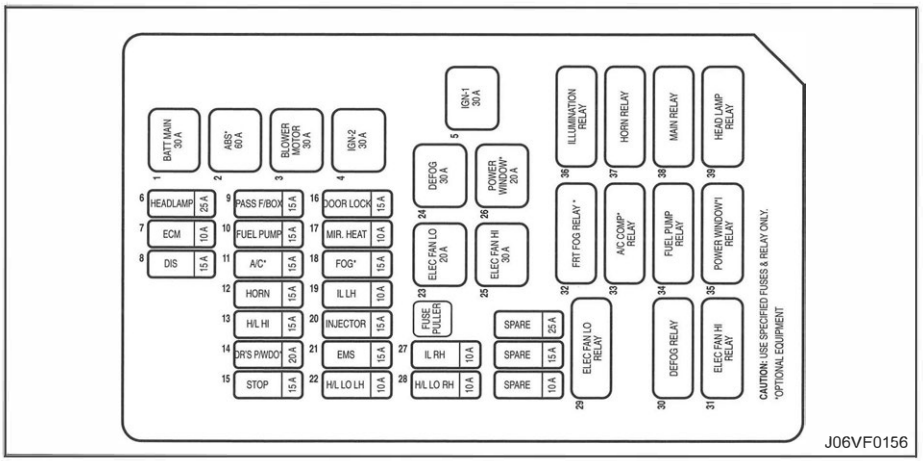
### Dash panel


1 10 A AIR BAG*
8 25 A WIPER
15 10 A AUDIO/CLOCK
2 10 A ECM
16 15 A EXTRA JACK*
3 15 A TURN SIGNAL
9 10 A ABS*
17 15 A CIGAR LIGHTER
4 10 A CLUSTER
10 10 A IMMOBILIZER*
18 10 A BACK-UP
11 10 A TCM*
19 15 A REAR FOG*
5 10 A ENG FUSE
12 15 A HAZARD
20 15 A ATC*/CLOCK
6 20 A HVAC
13 15 A ANTI-THEFT*
21 15 A AUDIO
7 15 A SUNROOF*
14 10 A DIAGNOSIS
22 10 A IMMOBILIZER*
CAUTION: USE THE DESIGNED FUSE ONLY
* OPTIONAL EQUIPMENT
J06VF0155

| No. | Circuits protected |
|---|---|
| 1 | Air Bag (10A) |
| 2 | Electronic Control Module (10A) |
| 3 | Turn Signal (15A) |
| 4 | Cluster (15A) |
| 5 | Engine (10A) |
| 6 | Heating and Air Conditioning System (20A) |
| 7 | Sunroof (If equipped) (15A) |
| 8 | Wiper (25A) |
| 9 | Antilock Brake System (If equipped) (10A) |
| 10 | Immobilizer (10A) |
| 11 | Traction Control Module (if equipped) (10A) |
| 12 | Hazard Flashers (15A) |
| 13 | Antitheft System (If equipped) (15A) |
| 14 | Diagnosis (10A) |
| 15 | Sound System; Clock (10A) |
| 16 | Extra Jack (If equipped) (15A) |
| 17 | Lighter (15A) |
| 18 | Backup Lamps (10A) |
| 19 | Rear Fog Lamps (If equipped) (15A) |
| 20 | Automatic Climate Control (If equipped); Clock (15A) |
| 21 | Sound System (15A) |
| 22 | Immobilizer (If equipped) (10A) |

# *FUSES cont.*

## Engine compartment




| No. | Circuits protected |
|---|---|
| 1 | Main Battery (30A) |
| 2 | Antilock Brake System (If equipped) (60A) |
| 3 | Blower Motor (30A) |
| 4 | Ignition 2 (30A) |
| 5 | Ignition 1 (30A) |
| 6 | Headlamp (25A) |
| 7 | Electronic Control Module (10A) |
| 8 | Antilock Brake System Warning Light Module (10A) |
| 9 | Interior Fuse Block (15A) |
| 10 | Fuel Pump (15A) |
| 11 | Air Conditioning System (10A) |
| 12 | Horn (15A) |

## ***FUSES cont.***

| No. | Circuits protected |
|---|---|
| 13 | High Beam Head Lamp (15A) |
| 14 | Driver's Power Windows (20A) |
| 15 | Stop Lamps(15A) |
| 16 | Door Locks (15A) |
| 17 | Heated Mirror (10A) |
| 18 | Fog Lamp (If equipped) (15A) |
| 19 | Left Illumination (10A) |
| 20 | Injector (15A) |
| 21 | Engine Management System (15A) |
| 22 | Left Low Beam Headlamp(10A) |
| 23 | Left Low Beam Headlamp(10A) |
| 24 | Low Speed Electric Fan (20A) |
| 25 | Demister (30A) |
| 26 | Hight Speed Electric Fan (30A) |
| 27 | Power Windows (20A) |
| 28 | Right Illumination (10A) |
| 29 | Right Low Beam Head Lamp (10A) |
| 30 | Low Speed Electric Fan Relay |
| 31 | Demister Relay |
| 32 | High Speed Electric Fan Relay |
| 33 | Front Fog Lamp Relay (If equipped) |

## *FUSES cont.*

| No. | Circuits protected |
|---|---|
| 34 | Air Conditioning Compressor Relay |
| 35 | Fuel Pump Relay |
| 36 | Power Windows Relay |
| 37 | Illumination Relay |
| 38 | Horn Relay |
| 39 | Main Relay |
| 40 | Headlamp Relay |

### Relays

Relays are also contained in this fuse box; their location in the fuse box and their function is indicated on the inside of the fuse box cover.

**WARNING:**

**When replacing a fuse ensure the replacement fuse is of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.**

## BULB REPLACEMENT

When replacing a bulb, turn off the related switch.

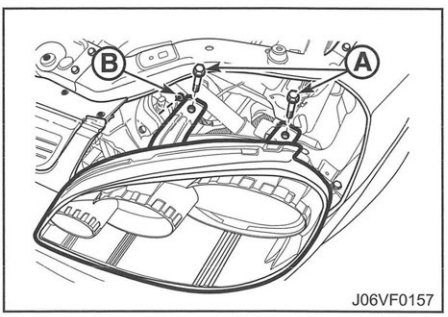
Do not touch new bulbs with bare hands. Greasy fingers will cause stains, which evaporate, and result in a dull light. Grease spots on Halogen bulbs will, within a short time, lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

When replacing bulbs do not exceed the wattage given on the defective bulb base.

Detailed procedures for headlight aiming are given in the relevant service manual for your vehicle. However, because headlamp aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.

### Head lamps(sedan and wagon)

1. Open the bonnet.
2. Remove the two bolts **(A)**, one nut **(B)**.
3. Disconnect the wiring harness connector from the bulb.
4. Remove the headlamp cap.
5. Release the spring that retains the bulb.
6. Remove the bulb and replace.
7. Reverse the steps to install a new bulb.



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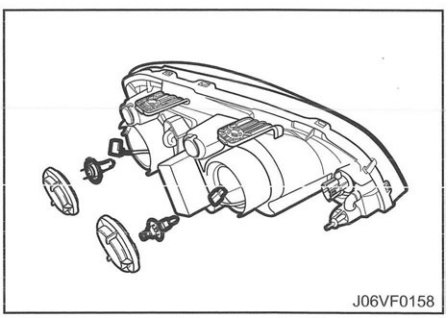
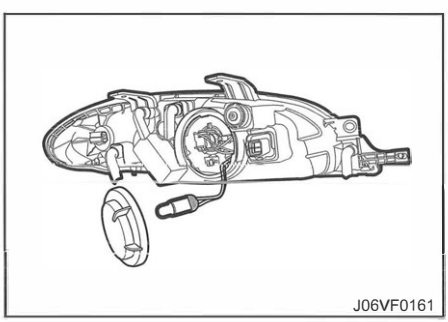

J06VF0158

### Parking lamps(sedan and wagon)

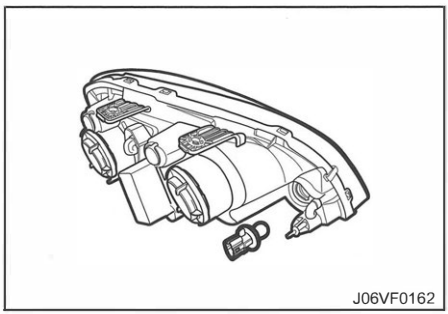
1. Open the bonnet.
2. Remove the two bolts, one nut and the headlamp assembly.
3. Remove the headlamp cap.
4. Pull out the parking lamp bulb assembly located next to the headlamp bulb.
5. Pull the bulb straight out.
6. Reverse the steps to install a new bulb.


J06VF0161

# BULB REPLACEMENT cont.

## Front turn signal lamps(sedan and wagon)

1. Open the bonnet
2. Remove the two bolts, one nut and the headlamp assembly.
3. Turn the bulb socket counterclockwise to remove it.
4. Pull the bulb socket out of the lamp housing.
5. Gently push in and turn the bulb counterclockwise to remove it from the socket.
6. Reverse the steps to install a new bulb. When installing the new bulb into the socket, press it in while turning it clockwise. When installing the socket into the housing, rotate the socket clockwise.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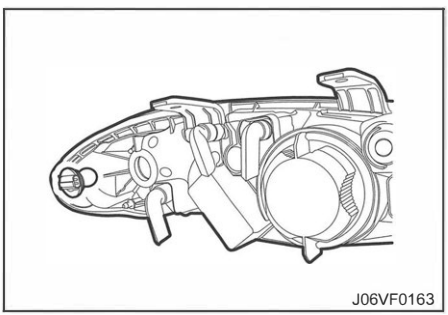
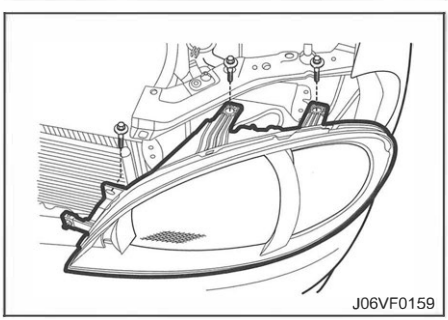
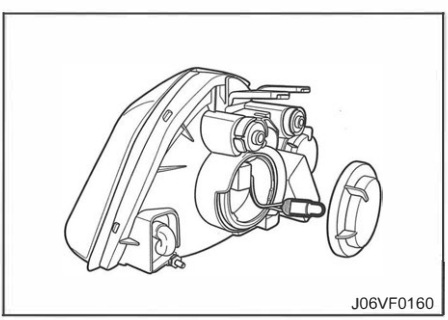

J06VF0163

## Head lamps(hatchback)

1. Open the bonnet.
2. Remove the four screws and the radiator grille.
3. Remove three bolts.
4. Disconnect the wiring harness connector from the bulb.
5. Remove the headlamp cap.
6. Release the spring that retains the bulb.
7. Remove the bulb.
8. Reverse the steps to install a new bulb.

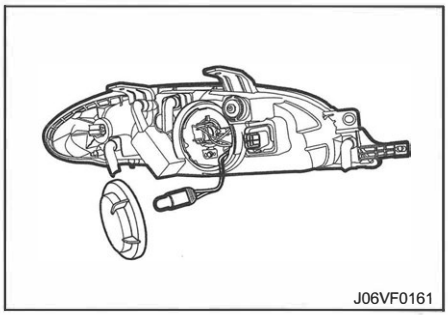

J06VF0159


J06VF0160

## BULB REPLACEMENT cont.

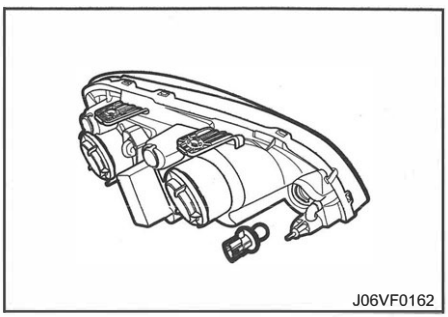
### Parking lamps(hatchback)

1. Open the bonnet.
2. Remove the four screws and the radiator grille.
3. Remove the two bolts, one nut and the headlamp assembly.
4. Remove the headlamp cap.
5. Pull out the parking lamp bulb assembly located next to the headlamp bulb.
6. Pull the bulb straight out.
7. Reverse the steps to install a new bulb.


J06VF0161

### Front turn signal lamps(hatchback)

1. Open the bonnet
2. Remove the four screws and the radiator grille.
3. Remove the two bolts, one nut and the headlamp assembly.
4. Turn the bulb socket counterclockwise to remove it.
5. Pull the bulb socket out of the lamp housing.
6. Gently push in and turn the bulb counterclockwise to remove it from the socket.
7. Reverse the steps to install a new bulb. When installing the new bulb into the socket, press it in while turning it clockwise. When installing the socket into the housing, rotate the socket clockwise.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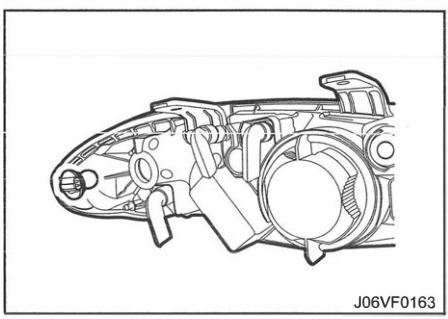
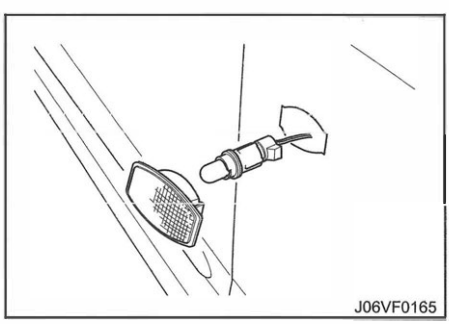

J06VF0163

### Side turn signal lamps

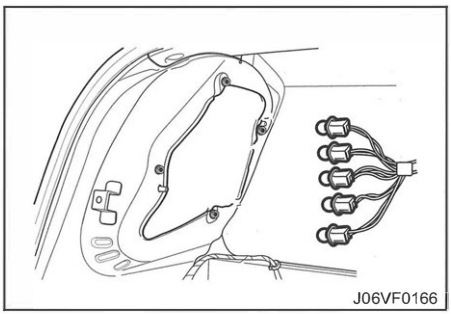
1. Pull the lamp assembly rearward and remove it.
2. Turn the bulb socket counterclockwise.
3. Pull the bulb straight out to remove it from the socket.
4. Reverse the steps to install a new bulb. When installing the new bulb into the socket, press it in while turning it clockwise. Make sure to push the lamp assembly back to its original position.


J06VF0165

## *BULB REPLACEMENT cont.*

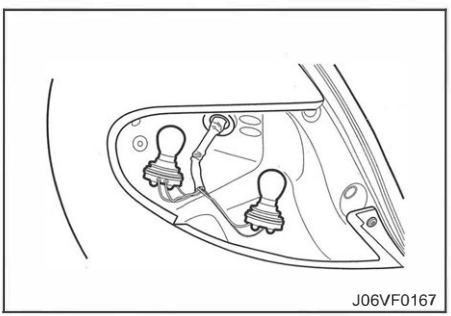
### Tail lamps, stop lamps, reverse lamps and rear turn signals (sedan)

1. Open the boot.
2. Open the boot trim cover.
3. Turn the bulb socket counterclockwise to remove it.
4. Gently push in and turn the bulb counterclockwise to remove it from the socket.
5. Reverse the steps to install a new bulb.


J06VF0166

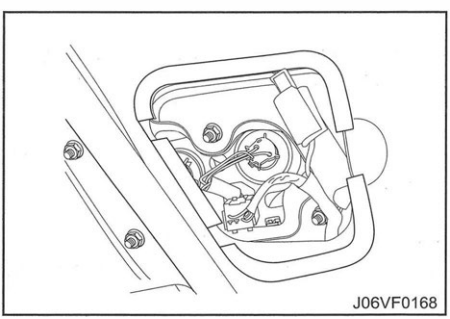
### Tail lamps, stop lamps and rear turn signals (hatchback)

1. Open the rear hatch.
2. Remove the two screws and the lamp assembly.
3. Turn the bulb socket counterclockwise to remove it.
4. Gently push in and turn the bulb counterclockwise to remove it from the socket.
5. Reverse the steps to install a new bulb.


J06VF0167

### Reverse lamps (hatchback)

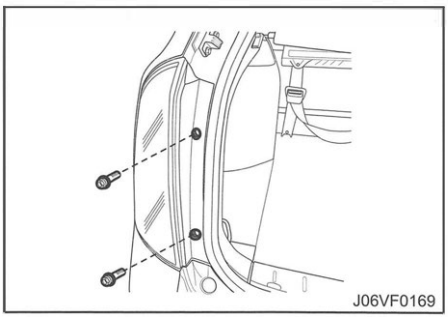
1. Open the rear hatch.
2. Remove the protective cover.
3. Turn the bulb socket counterclockwise to remove it.
4. Gently push in and turn the bulb counterclockwise to remove it from the socket.
5. Reverse the steps to install a new bulb.


J06VF0168

## *BULB REPLACEMENT cont.*

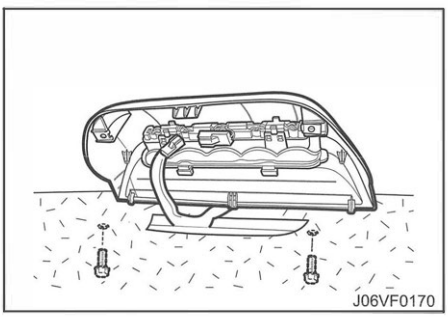
### Tail lamps, stop lamps, reverse lamps and rear turn signals (wagon)

1. Open the liftgate.
2. Remove the two screws and remove the reflector assembly.
3. Turn the bulb socket counterclockwise to remove it.
4. Gently push in and turn the bulb counterclockwise to remove it from the socket.
5. Reverse the steps to install a new bulb.



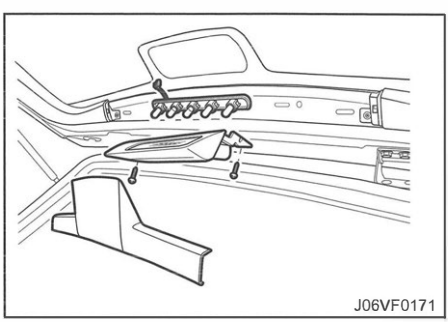

### Center hIgh-mounted stop lamp (sedan)

1. Open the boot.
2. Remove two screws from the lamp assembly.
3. Disconnect the wiring harness.
4. Remove the lamp assembly.
5. Remove the two screws and remove the reflector assembly.
6. Pull the bulb straight out to remove it from the socket.
7. Reverse the steps to install a new bulb.




### Center high-mounted stop lamp (hatchback)

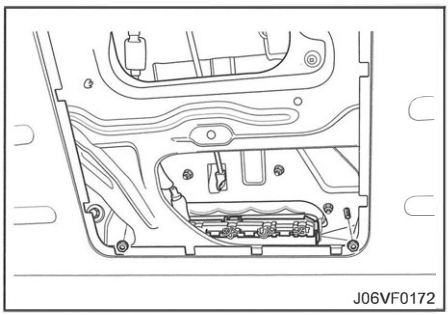
1. Open the rear hatch.
2. Pry off the trim and remove the two screws.
3. Remove the bulb socket.
4. Pull the bulb straight out to remove it from the socket.
5. Reverse the steps to install a new bulb.



## *BULB REPLACEMENT cont.*

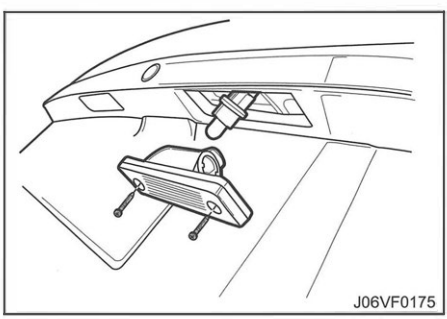
### Center high-mounted stop lamp (wagon)

1. Open the liftgate.
2. Remove the two screws and the lamp cover.
3. Pull the bulb straight out to remove it from the socket.
4. Reverse the steps to install a new bulb.




### Licence plate lamp

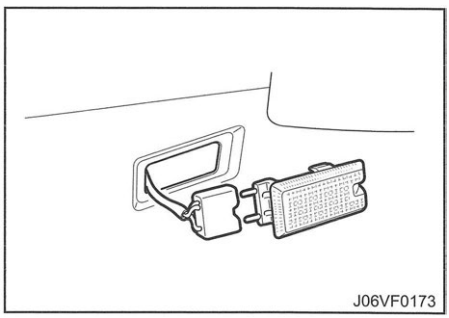
1. Remove the screws and the lamp cover.
2. Turn the bulb socket counterclockwise to remove it.
3. Pull the bulb out of the socket.
4. Reverse the steps to install a new bulb.



## *BULB REPLACEMENT cont.*

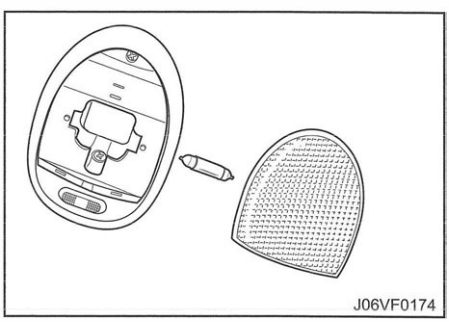
### Dome lamp / reading lamp

1. Use the flat edge of the screwdriver to pry the lens away from the headliner.
2. Remove the bulb
3. Reverse the steps to install a new bulb.




### Luggage / rear comparment area lamp

1. Use a flat-head screwdriver to pry the light assembly from the housing.
2. Remove the bulb.
3. Reverse the steps to install a new bulb.



CHAPTER 7

# Weekly checks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| 7-3 | Engine coolant level |
| 7-4 | Engine oil level |
| 7-5 | Engine oil consumption |
| 7-6 | Automatic transmission fluid level |
| 7-7 | Brake and clutch fluid level |
| 7-8 | Power steering and Washer fluid level |
| 7-9 | Tyres |
| 7-12 | Battery |

## *MISCELLANEOUS CHECKS*

As well as taking your vehicle to be serviced (refer to Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is recommended to make. These are shown on the following pages.

**WARNING:**

- **The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, ensure the ignition switch is off, so that the fan cannot start operating.**
- **Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.**

The following checks should also be regularly done to ensure safety of your vehicle:

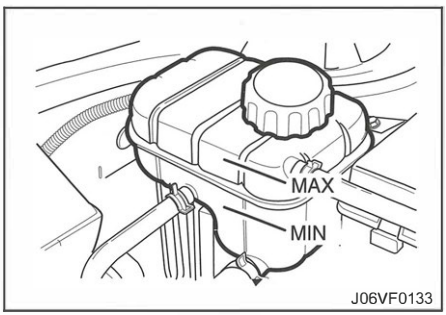
- All exterior lights are working and their appropriate interior indicators illuminate.
- Mirrors and glass are clean and not scratched.
- Aim of water on the windshield is satisfactory.
- Condition of the wipers is satisfactory.
- The demister operates.
- The horn works.
- Condition and operation of all the seat belts. Check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

# ENGINE COOLANT LEVEL

## To check the coolant level

The level of the coolant should be checked weekly. This is simply a matter of looking at the level in the plastic container, called the radiator reservoir tank.

Check the level of the coolant and replenish the radiator reservoir tank as necessary. When the engine is cool, if the level of the coolant in the radiator reservoir tank is found to be lower than the MIN line, check the cooling system for leaks, then replenish to bring the level up to the MAX line.




**WARNING:**

- **Do not over fill the radiator reservoir tank.**
- **Remove the radiator reservoir tank filler cap only.**
- **Always check the coolant level when the engine is cold. Steam and scalding liquids from a hot cooling system can blow out and cause serious burns.**

## To add coolant

If the radiator reservoir tank requires topping up, first pre-mix a solution of 50% coolant (refer to Chapter 8) and 50% water.

Ensure the ignition is switched off.

Undo the cap on the top of the radiator reservoir tank, add the pre-mixed solution and secure the cap.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily until the correct coolant is obtained as soon as possible from the nearest Holden dealer.

The specified coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -30°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system you should contact your Holden dealer.

**WARNING:**

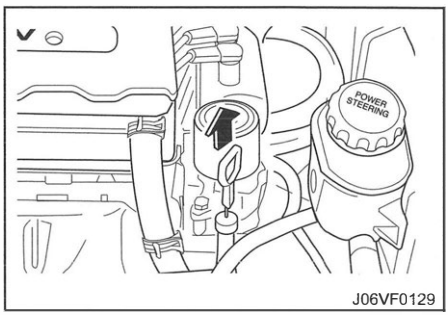
**Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.**

Refer to Chapter 6, if engine overheats.

# ENGINE OIL LEVEL

Engine oil must be kept at correct levels to help ensure proper lubrication of the vehicle's engine. Check the oil level at regular intervals, such as when refueling. If the Oil pressure warning light comes on, you must check the oil level immediately, or risk causing damage to the engine. See "Warning lamps" in Chapter 1.

## Check the oil level

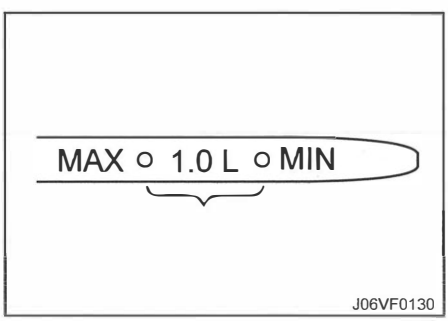



Check the oil level while the vehicle is parked on level ground and the engine switched off and at normal operating temperature.

Before checking the oil level, wait a few minutes after switching the engine off, to allow the oil to settle.

1. Remove the oil dipstick from the oil level tube.
2. Wipe the dipstick clean.
3. Insert the dipstick back into the oil tube as far as it will go.
4. Wait for a few seconds before again removing the dipstick.

The oil level should be maintained between the two dimples, neither going above the MAX mark nor under the MIN mark.




**Note:** Remember to insert the dipstick firmly after taking the reading.

## To add oil

Use the correct oil for your vehicle. Refer to Chapter 8.

1. Remove the engine oil cap.
2. Add the required amount of oil.
3. Wait a few minutes for the oil to settle, then check the oil level again. When the oil level is correct, replace the oil cap and dipstick and clean up any spilt oil.

**Note:** Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your car and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your vehicle.

# ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine: worn pistons, rings, valve stems and guides; the way in which the vehicle is operated; the quality and grade of oil; the oil level, and dilution of the oil.

## Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

## Quality and grade of oil

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too thin (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

## Oil level

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

## Dilution

Probably the most prevalent complaint of oil consumption comes from the driver whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the full mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil lost has been consumed in the highway operation.

If, after taking into account the above factors, you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7000 km.

# AUTOMATIC TRANSMISSION FLUID LEVEL

## Automatic transmission fluid level check (if fitted)

The fluid level for automatic transmission will be checked for you when your vehicle is taken to your Holden Dealer for servicing, refer to Chapter 12. The automatic transmission fluid level does not require checking by the driver in between these scheduled services.

## BRAKE AND CLUTCH FLUID LEVEL

**WARNING:**

**Do not let brake/clutch fluid touch your skin or eyes. If you do get in in your eyes or on your skin, wash the affected area thoroughly with soap and water, or hand cleaner.**

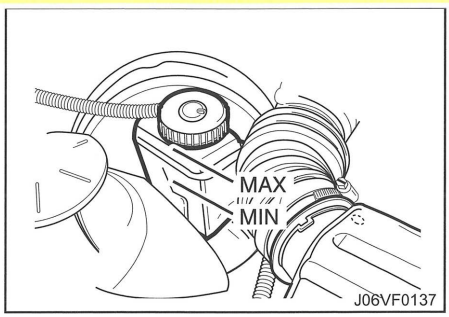
**Do not spill brake fluid on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.**

The vehicle is fitted with one reservoir for both the brake fluid and the clutch fluid (on manual transmissions).

The fluid should be kept at the proper level between the MIN and MAX lines on the reservoir.

If the brake fluid level is low, the brake system warning light will come on. See "Brake system warning light" in Chapter 1.

You should avoid topping up the reservoir, as adding brake fluid will not fix a leak. If a fault exists, you should immediately contact your Holden dealer.




To add Brake/Clutch fluid, do the following:

- Wipe the cap and top of the reservoir clean to prevent contamination of the brake/ clutch fluid. Contaminated fluid can affect the performance and lead to costly repairs.
- Remove the cap.
- Add enough fluid to bring the level up to the proper mark. The level should be between the MIN and MAX marks on the reservoir.
- Reinstall the cap.

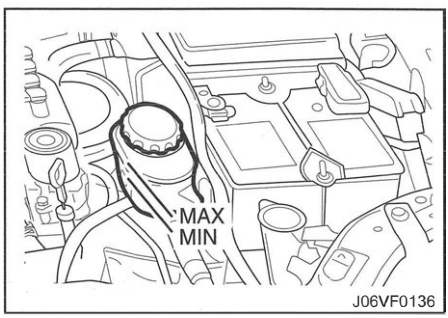
Use only recommended fluid, (refer to Chapter 8).

# POWER STEERING AND WASHER FLUID LEVELS

**Note:** Driving your vehicle without the proper amount of power steering fluid can result in system damage requiring costly repair.

## Power steering fluid level

The power steering fluid level should be checked and the fluid replaced at the intervals shown in the Maintenance Schedule, refer to Chapter 12.




The level should be checked with the ignition turned off.

Check the fluid in the reservoir. The level should be between the MIN and MAX marks.

If the fluid is below the MIN mark, you should add fluid.

To add power steering fluid, do the following:

- Turn off the ignition.
- Wipe the cap and the top of the reservoir clean.
- Remove the cap.
- Add only enough fluid to bring the level up to the proper mark. Do not overfill.
- Replace the cap tightly.
- Clean up any spilt fluid.

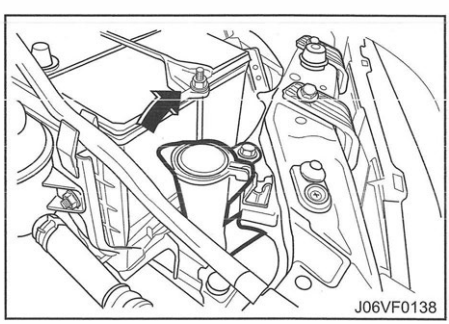
If steering fluid is required, refer to Chapter 8 for the specifications. If you often need to add fluid, you should see your Holden dealer.

## Washer fluid level

As washer fluid is constantly used, the level in the washer fluid reservoir should be checked and topped up weekly.

For a crystal clear windshield, use the correct amount of Holden Optikleen. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.



# TYRES

## Tyre air pressure

Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres. See tyre placard for the recommended tyre pressures.

For constant long distance or rough road driving, daily checking is recommended.

If the vehicle is heavily loaded, the recommended pressure for the tyres is increased. As the tyres are operating under greater load, the weekly air pressure check becomes even more important.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the tyres have been stationary for over three hours. If they must be checked immediately after driving, increase the pressure shown on the placard by 10% relative to the cold tyre inflation pressure.

The inflation pressure in the tyres should be increased according to the load on the vehicle. Therefore, if the vehicle is loaded to half the maximum payload (as shown in Chapter 10) then the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard. Vehicles driven for prolonged periods over rough roads, particularly in outback conditions, should use the cold tyre inflation pressure on the tyre placard for maximum load condition.

Always use a tyre pressure gauge to check the tyres; simply looking at the tyres is not sufficient.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds. If the pressure is too high, this can result in reduced traction, increased risk of tyre blowout and poor tyre wear.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves. When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

## Tyre condition, rim condition

Driving over sharp edges can lead to hidden tyre damage and rim damage, which can lead to tyre blowout.

Drive over edges slowly and at right angles if possible. When parking, ensure that the tyres are not pressed against the edge of the curb.

Check the tyres regularly for: damage, stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Consult a Holden dealer, if in doubt.

## *TYRES cont.*

### Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear. If you suspect either of the above problems exist, have a wheel alignment and balance check carried out by your Holden dealer.

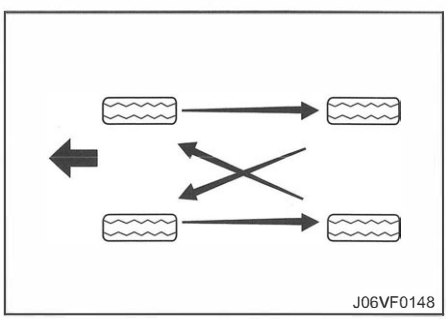
### Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures, etc.

Check the tread depth regularly. If the front tyres have more wear than the rear tyres, have both front wheels rotated with the rear wheels so that the tyres with the deeper tread are on the front.

Follow the diagram for the correct rotation pattern.

If the wheels are rotated it is recommended that the balance be checked at the same time.



## *TYRES cont.*

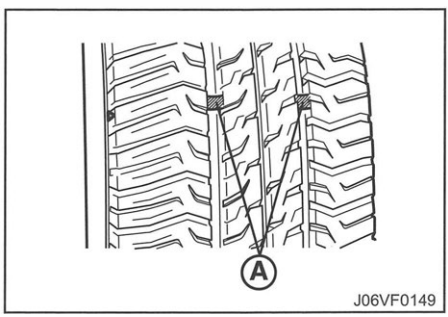
### Replacement and repair

Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your insurance policy. Refer tyre placard for tyre size and load rating. Using a different size or type of tyre may affect ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your vehicle should be referred to your Holden dealer.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

The tyres have tread wear indicators (A) which tell you when a tyre has 1.6mm or less of tread left.




You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your vehicle have built-in tread indicators which show up when the tyres are worn.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded cannot be driven safely at high speeds. Therefore, their use is not recommended.

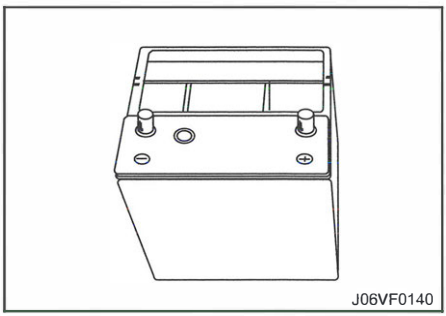
# BATTERY

## Battery maintenance

Your vehicle is fitted with a maintenance free battery, which means that the fluid level does not need to be checked.

To extend the life of your battery, do the following:

- Keep the battery mounted securely.
- Keep the top of the battery dry and clean.
- Keep the terminals and connections clean, tight and coated with petroleum jelly or terminal grease.
- Immediately rinse off any spilled electrolyte using a solution of water and baking soda.
- If the vehicle is not going to be driven for an extended period of time, disconnect the cable from the negative (-) terminal of the battery to prevent discharge, and charge the battery every six weeks.




**WARNING:**

- **Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.**
- **Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Take care with all metal objects and tools including items you may wear (e.g.: jewellery, ring and metal watch bands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.**
- **Never disconnect the battery when the engine is running.**
- **Always connect the red cable to the positive (+) battery terminal and the black cable to the negative (-) battery terminal. Connecting the battery cables to the wrong terminals can result in injury and damage to the vehicle.**

CHAPTER 8

# Specifications


Page

8-2 Specifications

8-4 Identification labels

# SPECIFICATIONS

| **Engine type** | 1.8 LITRE DOHC |
|---|---|
| Piston displacement | 1796 cc |
| Compression ratio | 9.7 : 1 |
| Bore | 80.5 mm |
| Stroke | 88.2 mm |
| Power kW @ rpm | 89 kW @ 5800 rpm |
| Torque Nm@ rpm | 169 Nm @ 3600 rpm |
| Oil specification | SAE 5W or 10/W30 SL GF-3 |
| Refill oil capacity (including filter) | 3.75 litres |
| Fuel tank capacity | 60 litres |
| Coolant capacity | 7.5 litres |
| Coolant specification | 50% Clean water and 50% coolant conforming to Holden Specification HN2217 |
| Brake fluid | DOT-3 or DOT-4 brake fluid |
| Power steering fluid | Dexron® III |
| Battery specification | 12 volts, 55 amp hours |
| Battery for remote control | CR 16 16 |

# SPECIFICATIONS

## Transmission

| Transmission | 5 speed manual transmission | 4 speed automatic transmission |
|---|---|---|
| Transmission Fluid type | SAE 80W or SAE 75W in cold area | Esso ATF LT 71141 |
| Clutch fluid type | DOT-3 or DOT-4 | – |

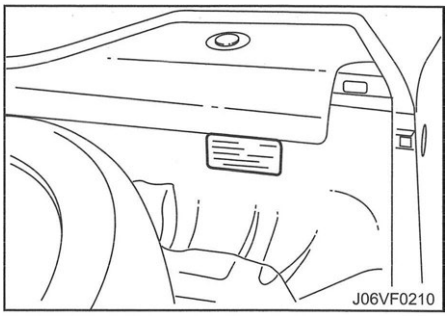
## Dimensions

| Vehicle | | Sedan | Hatch | Wagon |
|---|---|---|---|---|
| Overall length | | 4515 mm | 4295 mm | 4580 mm |
| Overall width | | 1725 mm | | |
| Overall height, at kerb weight | | 1445 mm | 1445 mm | 1500 mm |
| Track | Front | 1480 mm | | |
| | Rear | 1480 mm | | |
| Wheel base | | 2600 mm | | |

# IDENTIFICATION LABELS

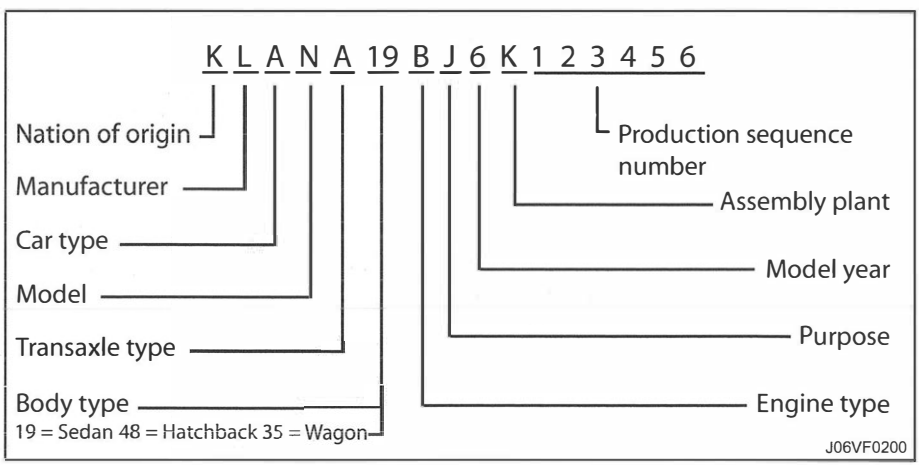
## Safety compliance plate

The safety compliance plate is located in the rear luggage compartment in the spare wheel well, adjacent to the spare wheel on the right hand side.



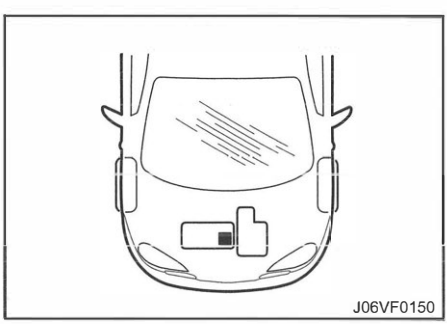

## Breakdown of Vehicle identification number

The Vehicle identification number is broken down the following way:




## Engine number

Individual identification numbers are stamped onto the engine block.

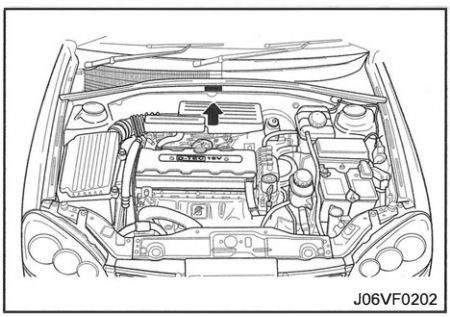


## *IDENTIFICATION LABELS cont.*

### Vehicle identification number

This is the legal identifer for your vehicle, and is used for the identification of spare parts.

The vehicle identification plate is located inside the engine bay, on the bulkhead.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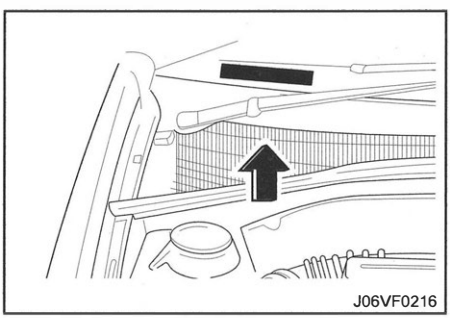
The vehicle identification plate is also visible through the windscreen on the top left hand side of the instrument panel.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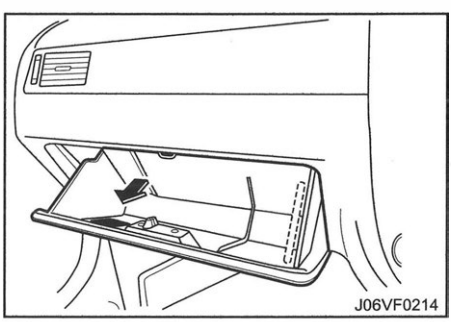
### Tyre placard

The tyre placard is located in the glove box for sedan and hatch model vehicles.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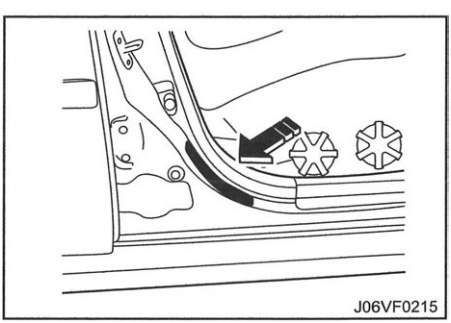
The tyre placard is found on the lower part of the 'B' pillar on the driver side on wagon vehicles.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## *Notes*

CHAPTER 9

# Customer Assistance


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| 9-3 | For New Zealand Holden owners |
| 9-4 | Roadside assistance |
| 9-6 | New vehicle warranty |
| 9-8 | Parts and accessories warranty |
| 9-9 | Warranty questions and answers |

# CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer's Sales and Service Department.

We realise however that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Holden Dealer's management staff. If you have not received satisfaction from the Sales Manager or Service Manager – go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is:

**9646 5466**

Outside the Melbourne Metropolitan area, the number is:

**1800 033 349**

If your concern relates to parts / accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address.
- Telephone numbers, both private and business.
- Servicing Dealer's name and address.
- Vehicle model.
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the service booklet in your vehicle's glovebox.
- Date of purchase.
- Current odometer reading.

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the service booklet in your vehicle's glovebox.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

## *FOR NEW ZEALAND HOLDEN OWNERS*

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

New Zealand Assistance can be reached on:

# 0800 HOLDEN (0800 465 336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne,
Australia, 3001.

# *ROADSIDE ASSISTANCE*

## 3 YEAR
## 24 HOUR ROADSIDE ASSISTANCE

### 1800 Telephone numbers

1800 telephone numbers are tollfree from landline phones, however standard rates apply when using a mobile or public telephone.

### Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

### How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Ltd. and delivered by the collective resources of the Australian Automobile Clubs and Associations including the constituents of Assist Australia (AA). To request a copy of the terms and conditions, contact Customer Assistance Service Line on 1800 033 349.

### Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

### What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your vehicle to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental vehicle, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

### Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668. To request a copy of the **Ultra** terms and conditions, contact Customer Assistance Service Line on 1800 033 349.

## ***ROADSIDE ASSISTANCE cont.***

### When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

### Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it. In remote or sparsely populated areas you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

### Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

### What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting your local Holden Dealer.

### What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

### How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

# *NEW VEHICLE WARRANTY CERTIFICATE*

## New Vehicle Warranty application

This Warranty is given by GM Holden Ltd., ABN 84 006 893 232, ('Holden'). The Warranty applies to the vehicle identified on the inside front cover of the service booklet in your vehicle's glovebox. It is provided to the original and subsequent owners / operators driving the vehicle within Australia during the Warranty Period.
This Warranty is given in addition to all rights conferred by law on that person.

## Australian vehicles

This Warranty is only applicable to vehicles purchased and operated in Australia.

Owners of vehicles purchased in Australia but operated overseas should consult the local Dealer in the country of operation about any Warranty applicable to their vehicle. This Warranty does not apply for Holden vehicles exported overseas. Similarly, this Warranty is not provided for vehicles purchased overseas and imported into Australia.

## Repairs covered

Subject to the exclusions shown on the following page, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at Holden's option by replacement.

## Warranty Period

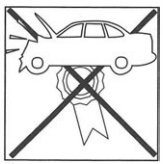
The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100 000 kilometres, whichever occurs first.

## No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in the service booklet for which a charge is payable.

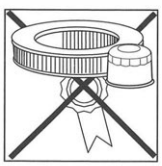
## *NEW VEHICLE WARRANTY CERTIFICATE cont.*

### Warranty exclusions



- **Damage**

  Your Warranty does not extend to the following damage:
  Damage caused by an accident, fire, theft or moving objects striking the vehicle.
  Damage caused by industrial fallout, chemicals or sealants.
  Damage caused by atmospheric fallout or flood, hail, salt, etc.



- **Maintenance items**

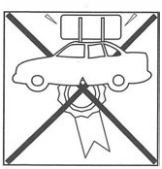
  Services such as brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance (refer to the service booklet in your vehicle's glovebox).

- **Tyres**

  The tyres (and tubes where applicable) fitted to your vehicle are not covered by this Warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**

  Batteries are warranted for 12 months.



- **Misuse**

  This Warranty does not cover damage caused by:

  (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect.
  (b) operation of the vehicle after the defect is known.
  (c) failure to carry out proper maintenance services (refer to the service booklet in your vehicle's glovebox).
  (d) use of incorrect types and grades of fuel, oil or lubricants.
  (e) alteration of the vehicle by anyone not authorised by Holden.
  (f) fitting of parts or accessories not recommended by Holden.
  (g) any work carried out on the vehicle by anyone except an authorised Holden Dealer or authorised Service Outlet.

# *PARTS AND ACCESSORIES WARRANTY*

**Holden warrants Holden approved Parts and Accessories ('Parts' and 'Accessories') for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.**

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100 000 km, whichever occurs first.

- **Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet**

  Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet are covered for 2 years or 50 000 km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty, the Parts and Accessories are covered by the longer of:

  2 years / 50 000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old vehicle would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old vehicle would be covered until the end of 4½ years or a further 50 000 km from when the Accessory was installed.

- **Purchased at retail or trade**

  Holden genuine Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Outlet are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

  The Warranty does not cover the labour costs of removal / reinstallation of Parts and Accessories when installed or rectified by other than a Holden Dealer or authorised Service Outlet.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.
  Batteries are warranted for 12 months from date of purchase.
  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation. Consult your Holden Dealer to confirm the period of this warranty.

# *WARRANTY QUESTIONS AND ANSWERS*

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions for which detailed answers are provided.

**Q 1. How do I go about obtaining Holden Warranty service?**

It is the responsibility of the Selling Dealer to provide Holden Warranty service, therefore, you should take your vehicle to the Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of the service booklet will be required by the Dealer.

**Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?**

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

**Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?**

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the authorised Holden Dealer who would normally provide you with Holden Warranty service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and / or completion of any required Holden Warranty service, as soon as possible.

**Note:** During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

**Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?**

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

## *WARRANTY QUESTIONS AND ANSWERS cont.*

**Q 5. Will I have to pay for maintenance costs during the Warranty Period?**

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedules specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses wiper blades and clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 3000 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 3000 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing – after 3000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads – after 3000 km.
- Brake lining wear or damaged brake components due to lining wear.
- Clutch lining wear or damaged clutch components due to lining wear.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment – after 3000 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments – after 3000 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings – after 3000 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

**Q 6. Are my tyres covered by the Holden New Vehicle Warranty?**

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

## *WARRANTY QUESTIONS AND ANSWERS cont.*

**Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?**

All parts and labour used in carrying out Holden Warranty service at the premises of the servicing Holden Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the servicing Holden Dealer it is your responsibility to deliver your vehicle to the servicing Holden Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and / or Holden Customer Assistance Service (refer to further on in this chapter) to obtain guidance.

**Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden?**

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle and may affect the validity of your New Vehicle Warranty.

Only the fluids and lubricants referred to in this handbook should be used.

## UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and Holden does not accept any responsibility for such unauthorised action.

## ***Notes***

CHAPTER 10

# Tow and Load


Page

10-2 Loading and towing

10-7 Towing precautions

# LOADING AND TOWING

## Trailers

The word 'trailer' is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

## Overloading

Overloading is a safety hazard and could also shorten the life of your vehicle. Never exceed the loads specified for your vehicle or trailer, as specified below.

## Vehicle capacities

***Unladen Mass*** – the mass of the vehicle in running order, unoccupied and unladen with all fluid reservoirs filled to capacity (including fuel) and with all standard equipment fitted.

| BODY STYLE | | MANUAL | AUTOMATIC |
|---|---|---|---|
| 4 DOOR SEDAN | (kg) | 1260 | 1285 |
| 5 DOOR HATCH | (kg) | 1255 | 1280 |
| 5 DOOR WAGON | (kg) | 1330 | 1355 |

## LOADING AND TOWING cont.

***Gross Vehicle Mass Rating (GVMR)*** – the maximum allowable laden mass of the vehicle.

***Gross Combination Mass Rating (GCMR)*** – the maximum allowable sum of the masses of the towing vehicle and the towed trailer.

***Gross Towed Mass Rating (GTMR)*** – the maximum allowable mass of a trailer (including load) that may be towed by the vehicle.

***Front Axle Capacity and Rear Axle Capacity*** – the maximum allowable loads on the ground at the front and rear axles.

| | | SEDAN | | HATCH | | WAGON | |
|---|---|---|---|---|---|---|---|
| | | M/T | A/T | M/T | A/T | M/T | A/T |
| Unladen Mass | (kg) | 1260 | 1285 | 1255 | 1280 | 1330 | 1355 |
| GVMR | (kg) | 1695 | 1720 | 1680 | 1705 | 1795 | 1820 |
| GCMR - with brakes | (kg) | 2895 | 2920 | 2880 | 2905 | 2995 | 3020 |
| GCMR - without brakes | (kg) | 2305 | 2330 | 2290 | 2315 | 2395 | 2430 |
| GTMR - with brakes | (kg) | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| GTMR - without brakes | (kg) | 610 | 610 | 610 | 610 | 610 | 610 |
| Maximum Ball Load | (kg) | 75 | 75 | 75 | 75 | 75 | 75 |
| Front Axle Capacity | (kg) | 920 | 920 | 920 | 920 | 920 | 920 |
| Rear Axle Capacity | (kg) | 845 | 845 | 845 | 845 | 950 | 950 |

M/T - Manual Transmission A/T - Automatic Transmission

**Note:** It may not be possible to tow a fully laden trailer (total trailer mass near or equal to the GTMR) with a fully laden vehicle (total vehicle mass near or equal to the GVMR), because the total combined weight of the vehicle-trailer combination may exceed the GCMR. In such cases it is necessary to reduce the load in either, or both, the towing vehicle and the trailer so that the combined mass of the towing vehicle and trailer is less than the GCMR.

When towing, you must take into account the additional load the trailer puts on the vehicle. Particular attention must be given to how the trailer changes the loads at the vehicle's front and rear axles.

When the vehicle and trailer are at or near full load, it is recommended that the use of a public weighbridge be used to check that none of the vehicle's, trailer's or towing equipment's capacities have been exceeded.

### Towing

Your vehicle is designed primarily to carry passengers, so handling, durability and economy may be affected by towing a trailer.

# *LOADING AND TOWING cont.*

## Country / State regulations

There are various regulations related to towing, and these can vary between the different Countries / States. These regulations normally cover the maximum allowable mass of the trailer and the maximum allowable driving speeds. You must be familiar with the regulations for towing for each of the States in which you intend to tow. Details of the regulations are available from the relevant State road traffic authorities or motoring associations.

## Towing equipment

The following table shows which towing equipment is essential, according to the total mass to be towed.

For your safety and your vehicle's durability, all equipment marked 'Essential' must be correctly installed and used. Otherwise you may void your New Vehicle Warranty, to the extent that Holden considers the overloading, missing equipment or misuse to have affected the specifications or quality of your vehicle.

| Total Trailer Mass | 1200kg Tow Bar | Trailer Wiring Harness | Trailer Brakes | Load Distribution |
|---|---|---|---|---|
| Up to 610kg | Essential | Essential | Check State Law | - |
| From 610kg to 750 | Essential | Essential | Essential | Recommended |
| Above 750kg | Essential | Essential | Essential | Essential |

Your Holden Dealer can supply and install towing equipment to suit your towing needs.

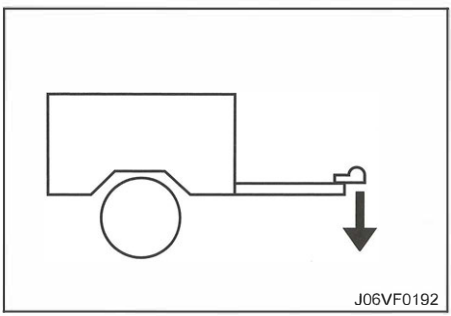
The Holden towing package for Viva includes the tow bar, tow bar 'tongue' and wiring harness. A Load Distribution Hitch is also available from Holden.

**WARNING:**

**Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle.**

## *LOADING AND TOWING cont.*

### Tow bar ball load




When a trailer is connected to the towing vehicle, some of the weight of the trailer is applied through the tow ball to the tow bar and towing vehicle. This weight is called the 'tow bar ball weight' or 'ball load'. The maximum ball load can be found in the specifications table earlier in this chapter.

If the ball load is too light or too heavy, the steering, handling and ride characteristics of the vehicle can be adversely affected.

As a general guideline, for single axle trailers, the ball load should be approximately 10% of the loaded trailer mass. For heavy trailers with more than one axle, the ball load should be in the range 5% - 10% of the loaded trailer mass.

Check the ball load capacity of your towing equipment. This may be called the 'Maximum Down Load', 'Maximum Vertical Load', 'Maximum Ball Load' or similar and will be specified on your tow bar.

Establish a target ball load that is in accordance with the recommendations (above) and within the capacity of the towing equipment.

Check the ball load (compare with the target) before coupling the trailer to the towing vehicle.

The ball load can be adjusted by redistributing the contents of the trailer i.e. by moving the contents of the trailer forward or backward within the trailer so as to change the trailer's balance.

For further information, contact the roads authority in your relevant Country / State.

### Carrying gas cylinders in vehicles

**WARNING:**

**Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.**

## *LOADING AND TOWING cont.*

### Roof racks

For occupant safety, and to avoid damaging the vehicle's roof, refer to your Holden dealer for approved rack system for your vehicle.

### Fitting accessories (Bull bars, driving lamps, insect screens, etc)

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, otherwise engine overheating and / or poor air conditioning performance may result.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that bull bars may affect airbag operation. Refer to Chapter 6 for details.

### Running in before towing

Holden recommends that you drive your new vehicle for at least 1500 km before towing. If you must tow in the first 1500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

### Off road loading and towing

Driving the vehicle off-road may induce higher loads than normal on-road driving. To reduce the risk of damage to your vehicle (and trailer) and to improve safety when operating off-road, reduce the vehicle speed and minimise the load being carried (or towed).

## TOWING PRECAUTIONS

- Your vehicle will handle differently when towing. It is a good idea to make a couple of short-distance trips with the trailer to become familiar with the handling characteristics of the vehicle when towing.
- Have your vehicle correctly maintained and serviced. More frequent vehicle maintenance is required when using the vehicle to pull a trailer. Refer to Chapter 12.
- Have your trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and the towing equipment.
- Driving speed should be reduced when towing.
- If the trailer has poor directional stability seek qualified advice e.g. the trailer manufacturer or retailer. The use of stabilising equipment should be considered.
- Ensure that all loads – in or on the towing vehicle and in the trailer – are properly secured.
- Use extended-arm rear vision mirrors when the trailer is wider than the towing vehicle.
- Headlights may need realignment after the loaded trailer has been hitched. The use of a load distribution hitch will reduce the need for headlight realignment, making towing safer and more convenient.
- Slow the vehicle and select a lower gear before descending steep hills.
- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure (refer to Chapter 7 for tyre placard and information about tyre pressures). Also, refer to Chapter 4, under 'Loading the vehicle', for driving information with increased loads.
- Be familiar with the regulations for towing for each of the States in which you intend to tow. Contact the road traffic authority in each State for specific advice.
- The brakes on the trailer must be adequate for the braking needs of the trailer and must not adversely affect the performance of the brakes of the towing vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle's licence plate. If necessary, remove the tow bar tongue when it is not in use.
- Do not use axle-mounted hitches.

## ***Notes***

CHAPTER 11

# Cleaning

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11-7 Roof, paint polishing, wheels and tyres

11-8 Exterior glass cleaning

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# INTERIOR CLEANING

**WARNING:**

**Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as: laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.**

## Care and cleaning of upholstery

Dust and dirt which accumulates on upholstery should be removed every few weeks; more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

It is essential that stains be removed as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they may become oxidised or set, and removal becomes difficult, if not impossible.

## Cleaning PVC coated fabrics

Vinyl (PVC) coated fabrics are used for seating, head linings and auxiliary trimming. The grades used vary according to their function. PVC fabrics are generally made by coating fabric with synthetic resins. Care of PVC fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended:

1. Using lukewarm water and soap, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

# *INTERIOR CLEANING cont.*

## Cleaning cloth trim

Where the seats in your vehicle are upholstered with cloth, the following instructions should be observed:

- Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.
- Do not use a whisk broom or a coarse hair brush.
- If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth.

## Cleaning leather trim (if fitted)

To remove surface soil and dirt from leather, clean regularly using Holden Leather Revitaliser. Apply using a lint free cloth and rub onto leather, do not saturate the leather with the cleaner and do not pour it directly onto the leather. Allow the leather to dry naturally. A mild detergent may be used as an alternative to a leather revitaliser.

For deeply embedded soil and dirt, use a leather cleaner. This should be applied using the same process as leather revitaliser. After using a leather cleaner / revitaliser apply a leather protector. A leather protector is designed to repel dirt and provides water resistance.

**Note:**

- Clean and protect leather at least twice a year with Holden Leather Cleaner or Mild Saddle Soap and a damp soft cloth.
- Do not use synthetic cloths or brushes for cleaning the leather as this may damage the leather.
- Solvents may damage and / or discolour the leather and should not be used.
- The leather may shrink and harden if exposed to direct sunlight for extended periods. If possible park in the shade or cover the leather.
- Do not leave items on the leather that may melt and stick to leather, for example, plastic bags.

## Vehicles with air bags

Use only a dry cloth or mild cleaner to clean the steering wheel and instrument panel. Do not use any aggressive cleaning agents.

## Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using a good quality carpet cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

## *INTERIOR CLEANING cont.*

### Cleaning seat belts

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and lukewarm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

**WARNING:**

Do not bleach or dye seat belts since this may severely weaken them.

### Cleaning interior glass

The interior glass area of the vehicle should be cleaned using Holden Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches.

# CARING FOR PAINT

To help preserve the shiny new vehicle finish, special attention should be given to correctly treating those conditions that can damage the paint.

**Road bloom**: If, over a long period of time, oils, dirt, exhaust and other pollutants are allowed to build up, they may combine to affect the paint finish.

**Etching**: Tree sap, bird droppings, salt water and other natural deposits can, if allowed to stay on the paint, leave an etching or scarring.

**Pitting**: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

## Paint inspection

Regular inspection of the vehicle should be made for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust 'creep' will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the vehicle gives a very high degree of protection against the weather, but it should be realised that wear and deterioration occur when the vehicle is exposed to corroding elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

To prevent damage of the paint surface, foreign matter should always be removed as soon as possible. Due to the acidic content, it is recommended that foreign matter such as bird droppings be removed within 24 hours.

The way the paint keeps its condition over time can be assisted by you. The easiest way to keep that paint looking bright and shiny is to keep it clean. A wash once a week will do wonders. However, it must be done correctly.

## Washing your vehicle

- Never use an automatic wash that has anything that touches the paint other than water.
- Wash your vehicle once a week to remove any build up of road grime that may have been deposited on your paint.
- Find a cool, shady spot to wash it. Do not ever wash it in direct sunlight.
- Hose the vehicle down from top to bottom with lots of cold water. This removes any grit or other loose particles and substances. Do not use a sponge or cloth yet.
- Fill a bucket with lukewarm water and add no more than 2 capfuls of gentle detergent. Do not use hot water, strong soap or chemical detergents.
- To remove bird droppings on paint, soak with a wet sponge for several minutes before washing off. If still evident, use a solution of one litre of water and 110 grams of dissolved baking soda (Bicarbonate of Soda). Flush the washed parts with clean water.
- Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing off that section with clean water. When you have completed each section, rinse the whole vehicle again with cold water.
- Dry the clean vehicle thoroughly with a good quality Chamois.

## *CARING FOR PAINT cont.*

**WARNING:**

Care should be taken when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

### Removing stains, such as grease, oil and tar spots

Just washing your vehicle regularly means that most of the harmful substances deposited on the paint will be removed before they can cause permanent damage. However, some substances are not easy to remove. So if you notice stains on the paint, make sure that you remove them at the earliest possible opportunity.

Grease and oil, and even tar if it is fresh, can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed.

A rubbing or cutting compound can be used after a normal wash. But this should never be done on a regular basis because it removes paint.

**WARNINGS:**

- **Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to automotive paint.**
- **If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften the new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.**
- **Petrol must not be used to clean any painted or plastic surfaces.**

### Ventilation system intake

The intake area between the bonnet and the windshield may collect leaves, which will impair air flow into the vehicle.

It is recommended that this area be cleared of debris whenever you wash your vehicle.

### Under vehicle washing

Your vehicle has a factory-applied PVC undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the vehicle underside not covered by PVC are provided with a durable protective wax coating. Once a year, preferably before the start of the cold season the wax coating and PVC coating should be checked and, if necessary, restored to perfect condition. Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden dealership, as it requires knowledge of the specified materials and experience concerning their application.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

# ROOF, PAINT POLISHING, WHEELS AND TYRES

## Polishing

Under normal circumstances the paint does not need polishing to retain its shine. A weekly wash is sufficient. However, the use of a Polymer Glaze about every three months will reduce the effects of road bloom by removing natural contaminants which can build up on the paint.

Do not attempt to apply a polish without first washing. This will ensure that all the loose grit, surface dirt, dust or grease etc, is removed.

## Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

## Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. Do not use abrasive cleaners on alloy wheels.

# EXTERIOR GLASS CLEANING

## Glass cleaning – general

Special care should be taken to avoid scratching the glass. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

## Windshield

It is important that the windshield be kept clean so that the wiper blades may be as effective as possible. Old wiper blades can cause windshield scratching and so should be regularly inspected and replaced.

Abrasive cleaners should never be used to clean glass as they can cause scratches, impairing night vision. After the windshield has been cleaned with a wet sponge it should be wiped over with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windshield washer reservoir.

## Wiper blades

Oil and road scum thrown up on the windshield will cause smearing when the wipers are switched on, when the dirt is transferred onto the wiper blades. Many owners, while they methodically clean the windshield glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately after the wiper blades are used. The blades can be cleaned by lifting them off the windshield and cleaning with Holden Optikleen and a clean cloth.

Do not operate the wiper blades by hand as this may damage the wiper drive mechanism.

If the wiper blades are used to clean dust and dirt from the windshield in dry conditions always use the washer system first to wet the windshield. Ensure that the windshield washer reservoir is not empty.

Should the wiper blades be frozen to the windshield, they must be lifted off and freed by hand before switching on the wipers.

## *CLEANING PRODUCTS*

| PART NUMBER | SIZE | DESCRIPTION | USAGE |
|---|---|---|---|
| 92145132 | 237 ml | Quick and Easy Speed Finish | Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage. |
| 92145418 | 437 ml | Quick and Easy Speed Finish | Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage. |
| 92145130 | 237 ml | All Purpose Cleaner | Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets. |
| 92145416 | 437 ml | All Purpose Cleaner | Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets. |
| 92145133 | 237 ml | Glass Cleaner | Cleans all glass surfaces. |
| 92145419 | 437 ml | Glass Cleaner | Cleans all glass surfaces. |
| 92140005 | 500 ml | Optikleen | Windscreen washer solvent. |
| 92140004 | 5 ml | Optikleen Sachet | Windscreen washer solvent; 1 sachett per washer bottle refill. |
| 92145129 | 237 ml | Hi Suds Car Wash | Cleans vehicle exterior. |
| 92145415 | 437 ml | Hi Suds Car Wash | Cleans vehicle exterior. |
| 92145131 | 237 ml | Vinyl and Trim Dressing | Seals and protects vinyl upholstery and plastic trim. |
| 92145417 | 437 ml | Vinyl and Trim Dressing | Seals and protects vinyl upholstery and plastic trim. |
| 92145140 | 120 ml | Leather Revitaliser | Revitalises the leather upholstery. |
| 92145141 | 120 ml | Leather Cleaner | Cleans the leather upholstery. |
| 92145142 | 120 ml | Leather Protector | Protects the leather upholstery. |
| 92145143 | 1 Kit | Leather Care Kit | Contains leather revitaliser, cleaner and protector. |
| 92145135 | | Chamois | Cloth for wiping off excess water from the vehicle's exterior after washing and rinsing. |
| 92145134 | | Handle Grip Sponge | Sponge for washing the vehicle. |
| 92145136 | | Microfibre Glass Cleaning Cloth | Cloth for cleaning all glass surfaces. |
| 92145137 | | Microfibre General Purpose Cleaning / Polishing Cloth | Cloth for general purpose cleaning / polishing. |

## ***Notes***

CHAPTER 12

# Servicing


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12-4 Servicing

12-6 Maintenance schedule

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12-17 Regular service coupons

# DETERMINING SERVICE INTERVALS

## Determining the proper service interval

The operating conditions of your vehicle determine the service interval as shown below. Use the odometer reading or the time interval, whichever occurs first, to determine when the service is due.

Under certain operating conditions, not only does your Holden vehicle require more regular servicing, it also requires additional servicing to ensure maximum safety, performance and longevity.

The additional service requirements typically include more frequent replacement of lubricating oils for example, engine transmission fluids and the more frequent inspection of steering, suspension and brake system components.

Also, brake fluid deteriorates with time and should normally be replaced every two years. However, heavy duty towing places a higher demand on the brake system. Therefore, brake fluid should be replaced more often if towing heavy loads.

Your Holden Dealer will be able to determine the appropriate service requirements for your vehicle according to your operating conditions.

If you drive less than 15 000 km in a 12 month period and your driving patterns are similar to those listed in the 7500km (or 6 month) service criteria, then some engine oils can deteriorate faster than normal, requiring changing more frequently.

**7500 km or 6 months intervals (Intermediate service)**

Use 7500 km or 6 months intervals if you regularly operate your vehicle under any or all of the following conditions:

- Operating on rough, dusty or loose surfaced roads.
- Towing a large trailer or boat.
- Repeated short trips less than 5 km in cold weather, or where the engine does not reach normal operating temperature.
- Extensive idling and / or low-speed driving for a long distance such as police cars, taxis or door-to-door calls.
- Extended high-speed driving under heavy load in high temperatures.

**15 000 km or 12 month intervals (regular service)**

If any of the above conditions are not relevant to your driving patterns, you need only perform maintenance every 15 000 km or 12 months.

**60 000 km interval**

Change the automatic transaxle fluid every 60,000 km if the vehicle is mainly driven under severe conditions:

- In heavy city traffic where the outside temperature regularly reaches 32°C or higher, or
- In hilly or mountainous terrain, or
- When doing frequent trailer towing, or
- Commercial use

# SERVICE INTERVALS

## Distance / time based service intervals

The first inspection is due at 3000km or 3 months (whichever occurs first). The first service is due at 15 000 km or 12 months (whichever occurs first). Thereafter, at every 15 000 km or 12 months since the last service (whichever occurs first). Additional services are required under certain driving conditions, such as when towing. (Refer to page 2).

# SERVICING

## The free first inspection

The 3 000 km inspection is performed free of charge by the Selling Dealer. A different Holden Dealer may perform this inspection if provided with a Letter of Authority or similar.

The Selling Dealer may supply this authorisation upon request.

## Service coupons

Service coupons are provided at the end of this booklet. When each service is performed, the appropriate coupon is removed. This reveals the next coupon to remind you when the next service is due.

After each service, check that the service has been validated with the Dealer's stamp and signature on the coupon stub. This is important as it not only assists in the determination of Warranty Claims, but enhances the value of the vehicle when selling.

Service coupons are provided for each service up to the 210 000 km service. After that time, the Maintenance Plan on pages 6 to 11 should be followed, commencing with the 15 000 km service.

If you are driving your vehicle outside of the normal driving operations you may need to conduct intermediate servicing. Service coupons for these intermediate services can be found between each of the major services.

## Your Holden Dealer

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the Warranty Period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Dealers.

## Warranty and service

All maintenance services listed in this Handbook, and replacement of service items, are the responsibility of the owner and as such are NOT considered under the provisions of the New Vehicle Warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch and parking brake or any other items which may require servicing due to fair wear and tear are carried out at the owner's cost.

Damage caused by failure to have proper maintenance services carried out by an authorised Holden Dealer or authorised Service Outlet, or in accordance with Holden's specifications, may void your New Vehicle Warranty. It is strongly recommended that you read the 'New Vehicle Warranty' in Chapter 9 of your Owner's Handbook so that you are aware of your Warranty exclusions.

## ***Notes***

# MAINTENANCE SCHEDULE

| *x 1000 km or* | *3* | *15* | *30* | *45* | *60* | *75* | *90* | *105* |
|---|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *3* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under bonnet** | | | | | | | | |
| *Change engine oil and engine oil filter. | - | X | X | X | X | X | X | X |
| Check fluid levels: brake, power steering, clutch, auto transmission and washer. Check coolant % with tester and check level (pressure test if level is low). | X | X | X | X | X | X | X | X |
| *Automatic transmission fluid change. | Only required under severe conditions | | | | | | | |
| Check battery terminal security. | X | X | X | X | X | X | X | X |
| Check accessory drive belt adjustment and condition. | - | - | X | X | X | X | X | X |
| Check for signs of deterioration and / or leaks from the engine, fluid reservoirs, air ducts, all hoses and clamps. | X | X | X | X | X | X | X | X |
| Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser. | - | - | - | X | - | - | X | - |
| *Replace air cleaner element. | - | - | - | X | - | - | X | - |
| Replace spark plugs. | - | - | - | - | X | - | - | - |
| Replace timing belt. Inspect tensioner, idler, roller and crank drive gear. | - | - | - | - | X | - | - | - |

Maintenance schedule continued next page.

*Items requiring additional servicing under some driving conditions.

Refer to page 12-2.

# *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *120* | *135* | *150* | *165* | *180* | *195* | *210* |
|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under bonnet** | | | | | | | |
| *Change engine oil and engine oil filter. | X | X | X | X | X | X | X |
| Check fluid levels: brake, power steering, clutch, auto transmission and washer. Check coolant % with tester and check level (pressure test if level is low). | X | X | X | X | X | X | X |
| *Automatic transmission fluid change. | Only required under severe conditions | | | | | | |
| Check battery terminal security. | X | X | X | X | X | X | X |
| Check accessory drive belt adjustment and condition. | X | X | X | X | X | X | X |
| Check for signs of deterioration and / or leaks from the engine, fluid reservoirs, air ducts, all hoses and clamps. | X | X | X | X | X | X | X |
| Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser. | - | X | - | - | X | - | - |
| *Replace air cleaner element. | - | X | - | - | X | - | - |
| Replace spark plugs. | X | - | - | - | X | - | - |
| Replace timing belt. Inspect tensioner, idler, roller and crank drive gear. | X | - | - | - | X | - | - |

Maintenance schedule continued next page.

*Items requiring additional servicing under some driving conditions.

Refer to page 12-2.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *3* | *15* | *30* | *45* | *60* | *75* | *90* | *105* |
|---|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *3* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under bonnet** | | | | | | | | |
| Check EVAP canister and vapor lines. | - | - | - | X | - | - | X | - |
| Check PCV system. | - | - | X | - | X | - | X | - |

Maintenance schedule continued next page.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *120* | *135* | *150* | *165* | *180* | *195* | *210* |
|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under bonnet** | | | | | | | |
| Check EVAP canister and vapor lines. | - | X | - | - | X | - | - |
| Check PCV system. | X | - | X | - | X | - | X |

Maintenance schedule continued next page.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *3* | *15* | *30* | *45* | *60* | *75* | *90* | *105* |
|---|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *3* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under vehicle** | | | | | | | | |
| Check engine & transmission for leaks. | X | X | X | X | X | X | X | X |
| Inspect front and rear disc pads for wear and discs for surface condition. | - | X | X | X | X | X | X | X |
| Check and adjust park brake. | X | X | X | X | X | X | X | X |
| Check wheel nut torque, tyre wear and tyre pressures. | X | X | X | X | X | X | X | X |
| *Drain, refill and bleed brake system. brake performance during road test. | Check Change every 24 months (regardless of km) | | | | | | | |
| Drain, refill and bleed clutch system. | Change every 24 months (regardless of km) | | | | | | | |
| Check all brake and fuel lines and hoses for condition, attachment and routing. | X | X | X | X | X | X | X | X |
| *Inspect front and rear suspension and steering for damaged, loose or missing parts, wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment, routing and leaks. | X | X | X | X | X | X | X | X |
| Inspect exhaust and adjacent underbody for damaged, missing or misaligned parts, open seams, holes or loose connections. Run the vehicle and check for exhaust leaks. | X | X | X | X | X | X | X | X |
| Inspect all constant velocity joints for damage or torn boots and rubber couplings for tears or splits. | X | X | X | X | X | X | X | X |
| Change fuel filter. | - | - | - | X | - | - | X | - |

Maintenance schedule continued next page.

*Items requiring additional servicing under some driving conditions.

Refer to page 12-2.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *120* | *135* | *150* | *165* | *180* | *195* | *210* |
|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under vehicle** | | | | | | | |
| Check engine & transmission for leaks. | X | X | X | X | X | X | X |
| Inspect front and rear disc pads for wear and discs for surface condition. | X | X | X | X | X | X | X |
| Check and adjust park brake. | X | X | X | X | X | X | X |
| Check wheel nut torque, tyre wear and tyre pressures. | X | X | X | X | X | X | X |
| *Drain, refill and bleed brake system. brake performance during road test. | Check Change every 24 months (regardless of km) | | | | | | |
| Drain, refill and bleed clutch system. | Change every 24 months (regardless of km) | | | | | | |
| Check all brake and fuel lines and hoses for condition, attachment and routing. | X | X | X | X | X | X | X |
| *Inspect front and rear suspension and steering for damaged, loose or missing parts, wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment, routing and leaks. | X | X | X | X | X | X | X |
| Inspect exhaust and adjacent underbody for damaged, missing or misaligned parts, open seams, holes or loose connections. Run the vehicle and check for exhaust leaks. | X | X | X | X | X | X | X |
| Inspect all constant velocity joints for damage or torn boots and rubber couplings for tears or splits. | X | X | X | X | X | X | X |
| Change fuel filter. | - | X | - | - | X | - | - |

Maintenance schedule continued next page.

*Items requiring additional servicing under some driving conditions.

Refer to page 12-2.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *3* | *15* | *30* | *45* | *60* | *75* | *90* | *105* |
|---|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *3* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under vehicle** | | | | | | | | |
| Check manual transaxle oil level. | X | X | X | X | X | X | X | X |
| Wheel Alignment. | Inspect when abnormal condition is noted | | | | | | | |
| Steering wheel and linkage. | X | X | X | X | X | X | X | X |
| Check Drive Shaft boots. | X | X | X | X | X | X | X | X |

Maintenance schedule continued next page.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *120* | *135* | *150* | *165* | *180* | *195* | *210* |
|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Under vehicle** | | | | | | | |
| Check manual transaxle oil level. | X | X | X | X | X | X | X |
| Wheel alignment. | Inspect when abnormal condition is noted | | | | | | |
| Steering wheel and linkage. | X | X | X | X | X | X | X |
| Check drive shaft boots. | X | X | X | X | X | X | X |

Maintenance schedule continued next page.

## *MAINTENANCE SCHEDULE cont.*

| *x 1000 km or* | *3* | *15* | *30* | *45* | *60* | *75* | *90* | *105* |
|---|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *3* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Vehicle interior** | | | | | | | | |
| *Check park brake operation. | X | X | X | X | X | X | X | X |
| Replace remote control batteries. | - | - | X | - | X | - | X | - |
| Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation. | X | X | X | X | X | X | X | X |
| *Replace Pollen Filter. **Note:** It is recommended to change the pollen filter every 15,000 kms if vehicle occupants suffer from respiratory complaints. | - | - | - | X | - | - | X | - |
| **Vehicle exterior** | | | | | | | | |
| Check operation of all exterior lights. | X | X | X | X | X | X | X | X |
| Lubricate bonnet catch, hinges and all lock cylinders. | X | X | X | X | X | X | X | X |
| Check transmitter range of remote control. | X | X | X | X | X | X | X | X |
| **Road test** | | | | | | | | |
| Check braking, steering, engine response & transmission operation. Check park pawl operation. Check air conditioner performance. Check neutral start switch. | X | X | X | X | X | X | X | X |
| Check for and complete, all relevant outstanding service campaigns and manufacturer recalls. | X | X | X | X | X | X | X | X |

Maintenance schedule continued next page.

*Items requiring additional servicing under some driving conditions.

Refer to page 12-2.

# MAINTENANCE SCHEDULE cont.

| *x 1000 km or* | *120* | *135* | *150* | *165* | *180* | *195* | *210* |
|---|---|---|---|---|---|---|---|
| *cumulative months* **(whichever occurs first)** | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* | *+12* |
| **Vehicle interior** | | | | | | | |
| *Check park brake operation. | X | X | X | X | X | X | X |
| Replace remote control batteries. | X | - | X | - | X | - | X |
| Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation. | X | X | X | X | X | X | X |
| *Replace Pollen Filter. **Note:** It is recommended to change the pollen filter every 15,000 kms if vehicle occupants suffer from respiratory complaints. | - | X | - | - | X | - | - |
| **Vehicle exterior** | | | | | | | |
| Check operation of all exterior lights. | X | X | X | X | X | X | X |
| Lubricate bonnet catch, hinges and all lock cylinders. | X | X | X | X | X | X | X |
| Check transmitter range of remote control. | X | X | X | X | X | X | X |
| **Road test** | | | | | | | |
| Check braking, steering, engine response & transmission operation. Check park pawl operation. Check air conditioner performance. Check neutral start switch. | X | X | X | X | X | X | X |
| Check for and complete, all relevant outstanding service campaigns and manufacturer recalls. | X | X | X | X | X | X | X |

*Items requiring additional servicing under some driving conditions.

Refer to page 12-2.

# *SERVICE CHARGES*

## Lubricants and materials

The owner is charged for all lubricants and materials used.

## Brake fluid

Must be changed every 24 months (charge added for brake fluid and 0.4 hour labour).

## Clutch fluid

Must be changed every 24 months (charge added for clutch fluid and 0.2 hour labour).

## Engine coolant

Must be changed every 36 months (charge added for engine coolant, and 0.4 hour labour).

## Fault repairs

The owner is charged for the repair or replacement of any part found faulty during a service check and not covered by Holden Warranty.

Where any deficiencies are noted, such items should be reported to the owner / operator and the extra work authorised.

## Additives not recommended

The use of break-in oil, tune-up compounds, friction reducing compounds and other supplemental additives are not recommended; their use not only increases operating costs, but may indeed be harmful to your vehicle.

## *Free inspection Coupon: 3000 km or 3 months*

This coupon should not be removed until the vehicle is presented for service.

Owner's Name Mr / Mrs / Miss .....

Other .....

Address .....

Town .....

State ..... Postcode .....

Registration ..... Engine no .....

ISOVIN ..... Model .....

Selling Dealer's Stamp and Signature .....

Date of Acquisition .....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp and Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's signature .....

---

**This inspection is provided free of charge.**

***3000 km / 3 months Free inspection validation***

This vehicle has been thoroughly checked in accordance with the 3000 km / 3 month free inspection.

Dealer .....

Service Manager's signature .....

Date ..... Odometer reading .....

## Under bonnet

- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect drive shaft boots.
- ❑ Inspect steering wheel and linkage.

## Vehicle interior

- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 15 000 km or 12 months**
*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.1 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check air cleaner element.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page.**

***Service Validation***
***15 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 15 000 km / 12 month service.
Servicing Dealer .....
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Inspect brake and clutch system.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

***Service Coupon*: 22 500 km or 6 months**

*from the last major service (whichever occurs first) Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

## Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***22 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 22 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## ***Service Coupon*: 30 000 km or 12 months** *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.5 hours labour
- engine oil and engine oil filter
- remote control batteries
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Check PCV system.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page.**

***Service Validation***
***30 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 30 000 km / 12 month service.
Servicing Dealer .....
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 37 500 km or 6 months**

*from the last major service (whichever occurs first) Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***37 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 37 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....
Additional services performed:
.....
.....
.....

## ***Service Coupon*: 45 000 km or 12 months**
### *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.8 hours labour
- engine oil and engine oil filter
- air cleaner element
- fuel filter
- pollen filter
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser.
- ❑ Replace air cleaner element.
- ❑ Check EVAP canister and vapor lines.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page.**

***Service Validation***
***45 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 45 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....
.....

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.
- ❑ Replace fuel filter.

## Vehicle interior

- ❑ Replace pollen filter.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 52 500 km or 6 months**

*from the last major service (whichever occurs first) Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***52 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 52 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....
Additional services performed:
.....
.....
.....
.....

## ***Service Coupon: 60 000 km or 12 months***
### *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 2.3 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- remote control batteries
- spark plugs
- timing belt
- tensioner, idler and roller if required
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant
- if automatic transmission fluid changed add 0.4 hour plus fluid

There will also be a charge for additional services as requested:
.....
.....
.....

Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Replace timing belt. Inspect tensioner, idler, roller and crank drive gear.
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Check PCV system.
- ❑ Replace spark plugs.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page**.

***Service Validation***
***60 000 kms or 12 months since last service*** (whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 60 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Replace automatic transmission fluid if vehicle is driven under severe conditions, see page 12-2.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 67 500 km or 6 months**

*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***67 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 67 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## ***Service Coupon*: 75 000 km or 12 months** *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.1 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
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Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake Fluid Change every 2 years (regardless of km).
- ❑ Clutch Fluid Change every 2 years (regardless of km).
- ❑ Coolant Change every 3 years (regardless of km).

**Service items continue next page**.

***Service Validation***
***75 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 75 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....
Additional services performed:
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## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check and adjust park brake.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 82 500 km or 6 months**

*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
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.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***82 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 82 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## ***Service Coupon*: 90 000 km or 12 months**
*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.9 hours labour
- engine oil and engine oil filter
- pollen filter
- remote control batteries
- air cleaner element
- fuel filter
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
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.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser.
- ❑ Replace air cleaner element.
- ❑ Check EVAP canister and vapor lines.
- ❑ Check PCV system.

- ❑ Brake Fluid Change every 2 years (regardless of km).
- ❑ Clutch Fluid Change every 2 years (regardless of km).
- ❑ Coolant Change every 3 years (regardless of km).

**Service items continue next page.**

***Service Validation***
***90 000 kms or***
***12 months***
***since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 90 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.
- ❑ Replace fuel filter.

## Vehicle interior

- ❑ Replace pollen filter.
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

***Service Coupon*: 97 500 km or 6 months**
*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
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.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

## Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***97 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 97 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## ***Service Coupon: 105 000 km or 12 months***
*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.1 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
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.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses, and clamps.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page**.

***Service Validation***
***105 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 105 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....
Additional services performed:
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## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Check and adjust park brake.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon: 112 500 km or 6 months***

*from the last major service (whichever occurs first) Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
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Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***112 500 kms or 6 months since last service*** (whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 112 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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***Service Coupon*: 120 000 km or 12 months** *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 2.3 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- timing belt
- remote control batteries
- tensioner, idler and roller if required
- spark plugs
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant
- if automatic transmission fluid changed add 0.4 hour plus fluid

There will also be a charge for additional services as requested:

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Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

## Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Replace timing belt. Inspect tensioner, idler, roller and crank drive gear.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Replace spark plugs.
- ❑ Check PCV system.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

Service items continue next page.

***Service Validation***
***120 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 120 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Replace automatic transmission fluid if vehicle is driven under severe conditions, see page 12-2.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon: 127 500 km or 6 months***

*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
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.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***127 500 kms or***
***6 months***
***since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 127 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## ***Service Coupon: 135 000 km or 12 months***

*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.8 hours labour
- engine oil and engine oil filter
- air cleaner element
- fuel filter
- pollen filter
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Replace air cleaner element.
- ❑ Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Check EVAP canister and vapor lines.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page**.

***Service Validation***
***135 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 135 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Check and adjust park brake.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.
- ❑ Replace fuel filter.

## Vehicle interior

- ❑ Replace pollen filter.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 142 500 km or 6 months**

*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
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.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***142 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 142 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## ***Service Coupon: 150 000 km or 12 months***

*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.5 hours labour
- engine oil and engine oil filter
- remote control batteries
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check PCV system.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

**Service items continue next page**.

***Service Validation***
***150 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 150 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
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## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon: 157 500 km or 6 months***

*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***157 500 kms or***
***6 months***
***since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 157 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....
.....

## ***Service Coupon*: 165 000 km or 12 months**
*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.1 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

Service items continue next page.

***Service Validation***
***165 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 165 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....
Additional services performed:
.....
.....
.....

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

***Service Coupon*: 172 500 km or 6 months**
*from the last major service (whichever occurs first)*
*Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

## Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***172 500 kms or 6 months since last service*** (whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 172 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## ***Service Coupon: 180 000 km or 12 months***
### *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 2.9 hours labour
- engine oil and engine oil filter
- pollen filter
- fuel filter
- remote control batteries
- spark plugs
- air cleaner element
- timing belt
- tensioner, idler and roller if required
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant
- if automatic transmission fluid changed add 0.4 hour plus fluid

There will also be a charge for additional services as requested:

.....

.....

.....

Signature ..... Date .....

**Note:** If the owner of t his vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Replace timing belt. Inspect tensioner, idler, roller and crank drive gear.
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Check PCV system.
- ❑ Replace air cleaner element.
- ❑ Replace spark plugs.
- ❑ Check EVAP canister and vapor lines.

**Service items continue next page.**

***Service Validation***
***180 000 kms or 12 months since last service*** (whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 180 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## Under bonnet cont.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Replace automatic transmission fluid if vehicle is driven under severe conditions, see page 12-2.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.
- ❑ Replace fuel filter.

## Vehicle interior

- ❑ Replace pollen filter.
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 187 500 km or 6 months**

*from the last major service (whichever occurs first) Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***187 500 kms or***
***6 months***
***since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 187 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....
.....

## ***Service Coupon: 195 000 km or 12 months***
*from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.1 hours labour
- engine oil and engine oil filter
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.

- ❑ Brake Fluid Change every 2 years (regardless of km).
- ❑ Clutch Fluid Change every 2 years (regardless of km).
- ❑ Coolant Change every 3 years (regardless of km).

**Service items continue next page.**

***Service Validation***
***195 000 kms or 12 months since last service*** (whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 190 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....
Additional services performed:
.....
.....
.....

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check and adjust park brake.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

## ***Service Coupon*: 202 500 km or 6 months**

*from the last major service (whichever occurs first) Only required for vehicles that are operated in extreme conditions.**

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 0.4 hours labour

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under vehicle

- ❑ Inspect front and rear disc pads for wear.
- ❑ Check all brake hoses and pipes for condition, attachment and routing.
- ❑ Inspect steering system for damaged, loose or missing parts, signs of wear or lack of lubrication.
- ❑ Inspect ball joints and dust covers.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect light operation.

- ❑ Brake Fluid Change every 2 years (regardless of km)
- ❑ Clutch Fluid Change every 2 years (regardless of km)
- ❑ Coolant Change every 3 years (regardless of km)

*For applicable operating conditions, refer to page 2.

***Service Validation***
***202 500 kms or 6 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 202 500 km / 6 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

## ***Service Coupon*: *210 000 km or 12 months***
### *from the last service (whichever occurs first)*

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts and lubricants as listed:

- 1.5 hours labour
- engine oil and engine oil filter
- remote control batteries
- pollen filter (if required)
- if brake fluid changed add 0.4 hour plus brake fluid
- if clutch fluid changed add 0.2 hour plus clutch fluid
- if engine coolant changed add 0.4 hour plus coolant

There will also be a charge for additional services as requested:
.....
.....
.....
Signature ..... Date .....

**Note:** If the owner of this vehicle has changed since the last service, refer to the change form in the introduction of your Owner's Handbook.

### Under bonnet

- ❑ Change engine oil and engine oil filter.
- ❑ Check fluid levels: brake, power steering, clutch, automatic transmission and washer. Check coolant inhibitor % with tester and check level (pressure test if level low).
- ❑ Check battery terminal security.
- ❑ Check accessory drive belt adjustment and condition.
- ❑ Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
- ❑ Drain and refill cooling system with recommended inhibitor and clean fresh water. Clean the outside of the radiator and A/C condenser.

***Service Validation***
***210 000 kms or 12 months since last service***
(whichever occurs first)

This vehicle has been thoroughly checked in accordance with the 210 000 km / 12 month service.
Servicing Dealer .....
Brake fluid changed: YES / NO Coolant changed: YES / NO
Clutch fluid changed YES / NO / N/A (Not Applicable)
Date of Service ..... Odometer .....
Signed .....

Additional services performed:
.....
.....
.....

**Service items continue next page.**

## Under bonnet cont.

- ❑ Check PCV system.
- ❑ Brake Fluid Change every 2 years (regardless of km).
- ❑ Clutch Fluid Change every 2 years (regardless of km).
- ❑ Coolant Change every 3 years (regardless of km).

## Under vehicle

- ❑ Check engine and transmission for leaks.
- ❑ Inspect front and rear disc pads for wear. Disc surface condition.
- ❑ Check and adjust park brake.
- ❑ Check wheel nut torque, tyre wear and tyre pressures.
- ❑ Check all brake and fuel pipes and hoses for condition, attachment and routing.
- ❑ Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering pipes and hoses for condition, attachment and routing and leaks.
- ❑ Inspect exhaust system and adjacent underbody. Look for damaged, missing or misaligned parts, open seams, holes or loose connections. Run vehicle and check for exhaust leaks.
- ❑ Inspect all constant velocity joints for damaged or torn boots and rubber couplings for tears and splits.
- ❑ Inspect manual transaxle oil level.
- ❑ Inspect steering wheel and linkage.
- ❑ Inspect drive shaft boots.

## Vehicle interior

- ❑ Replace pollen filter (if required).
- ❑ Replace remote control batteries.
- ❑ Check park brake operation.
- ❑ Seat belt inspection. Check webbing condition, buckle operation and retractor mechanism operation.

## Vehicle exterior

- ❑ Check operation of all exterior lights.
- ❑ Lubricate bonnet catch, door hinges and all lock cylinders.
- ❑ Check transmitter range of remote control.

## Road Test

- ❑ Check for braking, steering, engine response and transmission operation.
- ❑ Check park pawl operation.
- ❑ Check air conditioner performance.
- ❑ Check neutral start switch.
- ❑ Check for, and complete, all relevant outstanding service campaigns and manufacturer recalls.

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